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OUR COVER	

COPPERISHT ACRESOWLEDGMENT "Off on a Conet", and "A Toly is the Coner of the Europe by

In Our Next Issue: PROPERTY HACKENSAW'S SECRETS", by Clarect

"THE RUNAWAY SKYSCHAPER", by Microy Leit-mer, a strey of the Pourth Dimension, in which the great Metropolium Life algueraper in New York manishes wen May lune, but had to make room for the Jales "THE SCHENTIFIC ADVENTURES OF MR. FOS-DICK", by Jack Margan. Purhops you did not know it,

CHARLES OF THE STREET OF Charles S. Walle, a radia. sure that holds were interest and injects only a few Azadies weird story by Edgar Allaz Pos, which we are store you will like.

menhand at small groups, and prints from tractic for the east of OF EFFORTING of the auto-rights on angine recommend limits in our structures of the auto-rights on angine recommend limits in our structures for all 1875 or mail. Then a struct as manifest for a manifest in facility of the print of the structure of a structure ELECTION OF STRUCTURE Monifest on or for in administration of the print of the structure of the structure of the structure of the print of the structure of the structure of the structure of the print of the structure of the structure of the structure of the print of the structure of the structure of the structure of the print of the structure of the structure of the structure of the print of the structure o A . North Steel Advertising Property Colors





THE MAGAZINE OF

MAY, 1926 NO. 2

HUGO GERNSBACK, F.R.S., Editor
DR. T. O'CONOR SLOANE, M. A., Ph.D.; Assesse Editor

CIENTIFICTION

Editorial and General Offices - . . 53 Park Place, New York, N. Y.

Extravagant Fiction Tod

---- Gold Fact Tomorrow

THANK YOU!

his bean on the newstands only to seek, so we go to press with this record issee of the magazine, yet, derarg this short time, we have approved and outstreate extractions from prevent and outstreate estimate from the passes of the property of the contract of the country, assept the West see have and yet had time to bear from it.

obtaged with an evaluate of inture of suppressed and constructives criticals from personal and constructives criticals from personal and constructives are supported and constructives and the constructive support to the support of the constructive support of the support o

hard of her is your paper, and we are crucial bard to please you. Judgmig from the various comments, the first issue of AMAZING SYORES will not a few parts about right—the storyes pleased and the length of the shorter stories and the division of the long one occume admission.

And it was with a feeling of gratification that we noted the about unknown condumnation of the

toded the amount of the constraints of the constraint of the constraint of the constraint of the constraint of the constraints of the constraints

low, seem to best expense the general trend oppositions, we Anderson, of Pairmonst, W. 19 and fifting the privacy of the addition to privacy as good suggestion, easy: "Print all ownering facts as related in the state, in thaties. This will care to more forceduly driberts the files upon which you have entablished your magnifus. Perentully, when I have seem such to state the property of the proper

ranseing Stores is exterishing and has food for thought that no ether fiction work could begin to compete with." Raymend R. Dicken, Air Mail Radio Station, I own City, lows, any: "I can read those stories over several times and each time get something new from them."
Mathed H, Kay, Brookhu, N, Y, says: "You will
generally find that whas ech har reed your rengamine
he will become so entigrature, so deted ever his
discovery, that he will deser at a phenare to said its
accuracy, but he will deser at a phenare to said its
accuracy waiting for me to finish this first living, so
that she may rewal to hepself."

that do may read at hepril."

As to the fortune, Some very wheaths suggestion of the final state of the fortune of the fortune of the fortune of the first state of t

story—one or the muset that has ever been written
""Steine X", by G. MarLeed Winner.
"The Messiah of the Cydisder", by Victor Reunsean is another tremendeus story, and then, of
course, there is H. G. Wells, with his "The War in
the Air."
There is only one thing that tropbles us now: we

There's only one that there's to to be seen that the seen to the seen that the seen th

n. The success of AMAZING STORIES is an in user bands. We shall do our part—we a ourselves to do everything to merit your confi

A TRIP to the CENTER of the EARTH



impossible for me to above a single work. The evidence was unconserved, a verticionizati

Introduction to the Story

in rapid succession rewent truly manterly talks.

Of thise revearshible inventions of the homem wind,
"A Trip to the Conter of the Kerth" one the free
to be completed in its greened from It was published
in 1866, in a serian of books by Versa, denominated
"Vogapes Extracorinairia". This serias, started in
that year by the publisher Helself, has been continued

This particular "Voyage" has assective been declared our author's surferpiece. In it he for the first time gives free role to that held yet releasified, by sauct inagunation solvenily he has constructed for us in fancy the extire variourse. There is nothing us all the during visious of this tale which, east

today our seleutists usuful declare impossible. The interior of the earth in still missions; and there may used the right, passages, descending from Exercises used to the passages, descending from the control of the

many of the ancient forms of life non extinct upon certif's various.

The main scientific objection to this, as undeed to most of the usere familial of Vermi's takes, life in the astronogram means he employs to bring his caphorers home again, from their rectifies sentimes. But, as removes obviously demands their return

netonishing accidents and coincidences they enough the doors they have invited.

MKING back to all that has occurred to ly able to believe in the reality of my adventures. They were truly so wonadventures. They were truly so won-

when I think of them. My uncle was a Germon, though I am English, he having married my nother's syster. Barne vers

me to study under him in his home in the fatherland. This home was in a large town, and my uncle was a professor of philosophy, chemistry, geology, mineralogy, and many other ologics.

One day, after passing some hours in the laboratory-ray uncle being absent at the time-I suddealy felt the processity of recovering the tissues old French cook, when my uncle, Professor Von

Hardwice, suddenly spened the street door and came rushing upstairs. Now Professor Hardwigg, my worthy uncle, is

ebey; and scarcely had than he shouted for mo

to attend upon him. "Harry-Harry-Harry I hastered to obey, but room, jumping three steps at a time, he was stamp-

ing his right foot upon the landing, "Harry!" crief, in a frantic tone, To tell the truth, at that moment I was for more interested in the opestion

stitute our dinner than in esting than sodium, an orselette more tempting articholes of ten times more value than any

He was a very learned

in this category supply themselves with informaothers, and lay un stores in order to diffuse them so my excellent uncle. Professor Hardwire: he studied, he consumed the midnight off, he noved over heavy tomes, and digested huge quertos and folios,

at fank, and allude in such a vague way to sun, moon, and store, that few were able to comprehend his meaning. To tell the honest truth, when the almost unprencunceable names—names vary much resembling those of Welsh villages; and my uncle being year fond of using them, his hebit of stars-

stammered, and witen intent upon explaining the phenomena of the heavens, was ant to dod himself

mering was not thereby improved. In fact, there were nertices in his discourse when he would finally give up and swallow his discomfiture-in a glass of As I said, my uncle, Professor Hardwige, was a

pery learned man; and I now add, a most kind volstice. I was bound to him by the double ties of affection and interest. I took deep interest in all his doings, and hoped gome day to be almost as rare thing for me to be

N his immercal story, "A Trib to the Creter of the cally not lake Verse a matter of the magnetive type of felice, but he man a research of ingle callers. Business this, like imposts inconfology of pragraphy, the customs

lastral of boring a hale into the bosor's of the earth

trees, weers many of their are a spec and other highs-going organs.

his personal appearance. of him at a future timeafter be has gooe through

old: tall, thin, and work, certain extent, his vast, while his nose was frreverently compared to a thin file. So much in-

Like him, I professed

mineralogy to all the

was to gain real Assess!

edge of the earth. Geology

and mineralogy were to

us the rasin objects of life, and in connection

with these studies many

a fair apacimen of

atone, chalk, or ore did

we break with our ham-

But before I state the

useful article, that a company was said in his presence to have made considerable deviation. attracted to my uncle's nose was tolucco.

stanged a ward at a time, clenshed his fats as if he were eater to hit you and was when in one of his in a very nice house, in that very nice street, the -half wood, half bricks, with old-fushioned gables of 1842. When I may a nice house, I mean a hand-

it for lyr and a magnifount old tree which grew

My untile was rich; his house was his own propgod-daughter. Gretchen, who unfortunately was nway upon a viest on that momentans day

old cook, the young lady, the Professor and I were the caly inmates of his borns. I loved mineralogy, I loved geology. To me there was nothing better than nebbies-and if my uncle

that when the flowers to the drawing-room poin began to grow, he rose every morning at four o'clock to make them grow quicker by nelling the Having described my unde, I will now give an account of our interview. He received me in his study; a perfect museum, containing every natural

me, having estalogued each he my own hand. My uncle, agreemently oblivious of the fact that he had book. He was norticularly fond of early editions.

"Wonderful!" he cried, taming his forehead "Wenderful-wonderfull" It was one of those velto me it appeared to possess but little value. My uncle, however, was in raptures. He admired its binding, the clearness of its characters, the case with which it comed in his hand, and reneated

aloud, half-a-dozen times, that it was very, very To my fanty he was making a great fuse about the contrary, I professed considerable interest in the subject, and asked him what it was shoot

said, "the celebrated Icelandic author of the twelfth wegian princes who reigned in Iceland. My next question related to the language in which it was written. I hoped at all events it was translated into German. My usels was indispant at

and yet simple idioms in the world-while at the

"About as easy as Garman?" was my insidious My uncle shrugged his shoulders. "The Bundo letters at all events," I said, "Wre rather difficult of comprehension."

"It is a Ruelo manuscript, the language of the original repulation of Iceland, invented by Odin

I was about to venture upon some misulated toke on the subject, when a small screen of narelement fell out of the leaves. Like a hangry man snetching at about five inches by three and was acrawled over

My uncle broked keenly at the document for some moments then declared that it was Runic. The letters were similar to those in the book, but then what did they mean? This was exactly what I

Now, as I had a strong convection that the Runic alphabet and disfect were simply an invention to mystify poor human asture, I was delighted to find I did-which was nothing. At all events, the

"And yet," he muttered to himself, "it is old leekendle, I am sure of it." My uncle ought to have known, for he was n perfect polyglot dictionary in himself. He did not

It is a matter of great doubt to me your to what isd how, had not the clock struck two, and our old "Bother the dinner?" cried my uncle. But I was

I took up my usual quarters. Out of politeness I Professor. I was surrensed. He was not usually an blind to the pleasure of a good dinner. It was the acme of German luxury-persity soup, a hom amelette with sorrel trimmings, voal stewed with neunes, delicious fruit, and spurkling Moselle. For the sake of poring over that musty old piece of parchment, my uncle forbore to there our meal. To

The old cook and housekeeper was nearly out of her mind. After taking so much trouble, to find disappointment-which as she watched the havor I

was making on the viands, became also slaves. If hav uncle were to come to table after all? Suddenly, just us I had consumed the last orele and drunk the last gires of wine, a terrible voice

was board at no great distance. It was my world nearly one leap-so load, so flerce was his tone.

A TRIP TO THE CENTER OF THE BARTH his spectacles, and, taking a powerful magnifying

THE MYSTERIOUS PARCHONENT YILLNA *HJ+N+N HEEFTHA FRH1YN 1721744 NO 1+YA 41011A AHYAY 140 201 b4,141 E H + I B b

KIT PATT La shaah 441141 Y+biil

glass, examined the book carefully. On the fly lead effaced by time. This was what he sought. After 1444 411111444

"Arns Saksussers!" he eried in a forcus and triumphant tone, "that is not only an Icelandic name, but the name of a learned professor of the

I howed as a sign of respect. "These alchemists," he continued, "Avicana, Baces, Lully, Purscellus, were the true, the only learned man of the day. They made surgetung dis-

coveries. May not this Sakrussers, nephew wine. have bidden on this bit of partiment some astounda profound meaning-which I must make out." My uncle walked about the room in a state of environment almost impossible to describe.

"It may be so, sir," I timidly observed, "but why "Why-how should I know? Did not Golifso males a secret of his discoveries in connection with Seturn? But we shall see. Until I discover the

"My dear unclo——" I begun. "Nor you either," he added. It was lucky I had taken double allowance that day, "In the first place," he continued, "there must be

rest would be easy enough." I began seriously to reflect. The proppert of going without feed and sleep was not a premising one, so I determined to do my best to solve the mystery. My uncle, meanwhile, went on with his

"The way to discover it is easy enough. In this yowels. This is about the proportion found in most appthern hinguages, the iditions of the north being much more rich in consonants. We may confidently predict, therefore, that we have to deal with a

"Now," said Professor Hardwigg, "to trace the "As Shekesteere soys, "but is the question!"

was my rather antirical reply. "This man Sakaussem," he continued, "was a very learned man; now as he did not write in the inneugoe of his hirth-place, he probably, like most even Hebrew. My own opinion, though, is decidedly This promotition startled me. Latin was my

favorite study, and it seemed sacrilege to believe this eitherish to belong to the country of Virgil. "Barbarous Latin, in all probability," continued

occure," crust my uncle, striking the table which I must get at, at any price." I was about to reply, when he stopped me. "Sh

down," he sand, quite forcely, "and write to my I obeyed. "I will substitute," he said. "a letter of

our siphatet for that of the Runs; we will then ase what that will produce. Now, burin and make The dictation commenced with the following in-

zerolde gralSx. ieazòs: Scarcely giving me time to finish, my uncle

"I should like to know what it means," he said, after a long period. I certainly could not tell him nor did he expert "I declare it puts me in mind of a cryptograph,"

he cried, "unless, indeed, the letters have been written without any real mouning; and yet why take so much trouble? Who knows but I may be My randid opinion was that it was all rubhish! But this coinion I kent carefully to myself, as my time he was comparing the book with the parch-"The manuscript volume and the smaller docu-

ment are written in different hands," he said, "the eryptograph is of much later date than the hook; twelfth century-this makes the parchment two The circumstances appeared very probable and

"To ree it appears probable that this sentence was written by some owner of the book. Now who hans by great good luck it may be written somewhere in the volume." With these words Professor Hardwigg took off

"Very probably," I replied, not to contradict him. "here you are we have a series of one hundred and paper, without method or organization. There are words which are composed whelly of consuments. stich an murally, others, which are passiv all wounds the last escibe. This appears an extraordinary corearranged according to some mathematical plan. No

is the clos. Now, Harry, to show your English I could give him no hint. My thoughts were indeed far away. While he was speaking I had caught sight of a portrait of my coustn Gretchen, afficiend, and loved one another very aincarely. But abstraction, the Professor began reading the pun-

some theory of his own. Presently, rossing my wandering attention, he dictated one precious atterrot to mo. I mildly handed it over to him. It read as

menowskySearA.icefdoK.seoulttossurtu. ecertserrette, rotainsadsa, ndacendesdae I could scarcely keep from laughing while my

CHAPTER III

AN ASTOUNDENO SESCOVERY

THAT is the matter?" cried the cook, on-VV his dinner?"

"And, his support" "I den't know. He says he will sat so more, meither shall L. My untle has determined to fast and make me fast until he reads this aborninable

"You will be starved to death," she said. I was very much of the same opinion, but not liking to say so, sent her away, and begun some of my usual work of classification. But have as I made moself, nothing could keep me from thinking al-

Several times I was tempted to go out, but my seating myself in the great armchair, I began to talking to himself, getting the air with his come.

the execuble puzzle and tried every imaginable way of grouping the letters. I gut them together by twon, by threes, fours, and fives-in vair. Nothing fifteenth and sixteenth made (or in English; the eighty-fourth, eighty-lifth and elohty-citth. word swy then at last I seemed to find the Latin words reds, esutabile, fre, nec, atra. "Ha! there seems to be some truth in my uncle's notion," thought L.

and still thinking of the abourd bit of hieroglyphics. Would be hit upon some chie? Would be some

home in better bumor? While these thoughts were

Then again I seemed to find the word face, which peared to make out labiled, a perfect Hebrew word. French. It was enough to drive one mad, Four different idious in this abourd phrase. What connection could there be between ice, sir, anger, cruel, secred grove, changing, mother, art and sen? The first and the host might, in a nextense connected with Iceland, mean sea of ice. But what of the rest

of this monstrous coyptograph?

I was, in fact, fighting against an insurmountable difficulty; my brain was almost on fire; my even before my vision in a number of black little grouns. My mind was possessed with temperary hallorings tion-I was atifling. I wanted say. Mechanically I farmed myself with the document, of which I saw Imagine my surprise, when glancing at the back

of the wearisome puzzle, the ink haring cone through, I clearly made out Latin words, and among others cruteren and terrestre. Pice a flock of lightning I had get the also. All

to me; by a mere accident I had discovered what he My delight, my emotion may be imagined. My

could make nothing of it. One look, however, would "Let me read," I said to myself, after drawing a hone breath. I aprend it before me on the table, I

passed my finger over each letter, I spelt it through; my soul. I was like a man who had received a knock-down blow. Was it possible that I realls read the terrible secret, and it had really been ar-

L jumping up; "News shall my uncle he reade aware of the draud secret. He would be quite capable of undertaking the tarrible fourney. Noth,

would compel me to accompany him, and we should be lost forever. No: such folly and madness exceed be allowed." Where was my uncle? I could easily imagine I was almost beside myself with race and form him tearing along some solltary read, gesticulating, "My worthy uncle is already nearly mad," I cried sloud. "This would finish him. By some socident

A TRIP TO THE CENTER OF THE EARTH he may make the discovery, in which case, we are

both last. Perish the fearful secret-let the figures forever bury it in chilvren. I matched up book and parchment, and was about my uncle entered. I had sourcely time to put down side. He was profoundly absorbed. His thoughts were evidently heat on the terrible purchment, Some new combination had probably struck him while taking his walk. He seated himself in his arm-chair, and with a pen began to make an also-

hraical calculation. I watched him with anxious aves. My firsh crawled as his discovery of the seclus, I knew his combinations were uselnss. For three mortal hours he continued without speaking a word, without, raising his head, scratching, rewriting, calculating over and over again. I know that in time he must hit upon the right phrase. The letters of every alphabet have only a certain number of combinations. But then years might classe be-

fore he would arrive at the correct solution. Still time went on; night came, the sounds in the atreets crazed-end still my uncle went on, not even arswering our worthy cook when she called us to away, and at last fell selcep on the pofa-

When I awake, my uncle was still at work. His red even, his politid countenance, his matted halv, his familish hands, his herticly flushed cheeks, showed how terrible had been his struggle with the ironessible, and what fearful fatigue he had undergone during that long sleepless night. It made me quite ill to look at him. Though he was rather sewere with me, I loved him, and my heart ached at his sufferings. He was so overcome by one idea that he could not even get into a passion! All his enerwhen were focussed on one point. And I know that

esays. I could not speak it My heart was, nevertheless, inclining towards Why, then, did I remain silent? In the laterest of my uncle himself. "Nothing shall make me speak," I muttered. "He will want to follow in the frecuters of the other | I know him well, His imagination is a perfect volcano, and to make discoveries in the interests of geology he would sacrifice his life. I will therefore be silent and strictly be suicidal. He would not only himself rush to destruction, but drag me with him." I crossed my

arms, looked another way and smoked-resolved When our cook wanted to go out to market, so tend the old woman and myself to become martyrs to his electinate will. Were we to be starved to

death? A frightful recollection came to my mind. Once we had fed on bits and screen for a week while he corted some curiosities. It gams me the cramp

I wanted my breakfast, and I naw no way of cetting it. Still my resolution held good. I would starve rather than yield. But the cook begun to take me seriously to task. What was to be done? She could not go out; and I dared not.

coak had eaten the hast bit of bread. This could not so on. At two o'clock my sensations were terrible, After all I began to think the document is very absurd. Perhana it is only a gigoritic boox. Benides, some means could sarely be found to loop my uncle back from attempting any such abourd expedition. quixotic, I could not be compelled to accompany him. Another line of reasoning partially decided me Very likely he would make the discovery himself when I should have suffered storvation for nothing-Under the industrice of hunger this reasoning ap-The question now arose as to how it was to be done. I was still dwelling on the thought when be rose and put on his hat. What! go out and lock us in? Never! "Uncle," I began.

imagination seemed to have transported him to the skice. He thought neither of eating nor drinking

In this way twelve o'clock came around. I was

hungry, and there was nothing in the boune. The

He did not appear even to hear ma. "Professor Hardwige," I cried.
"What," he retorted, "did you speak?"
"How about the key?" "What ker-the key of the door?" "No-of those borrible hieraphyphics."

He looked at me from under his spectacles, and during at the old expression of thy face. Rushing forward, he clutched me by the arm and keenly examined my countenance. His very look was an interrogation. I simply nedded. With an incredulous shrug of the shoulders, he berned upon his beel. Undorbitedly he thought I

"I have made a very important discovery." His eyes fisshed with excitement. His hand was lifted in a mensing attitude. For a moment neither of us spoke. It is hard to say which was

"You don't mean to say that you have any idea of "I do," was my desperate reply. "Look at the "Well but it means nothing," was the angry "Nothing if you read from left to right, but mark, if from right to left-" "Backwards?" cried my unds, in wild amazament. "Oh most curning Sakmesasm; and I to be such a

blockbond." He snatched up the document, gazad at it with harourd eve, and read it out as I had In Sneffels Iossife cruteren ken delebat

Audas vinter, et terrestre centrum attingen. Kod feel, Arms Salmuseem.

Which doo Latin being translated, read as follows: "Decord into the cruter of Yokal of Szoffele, which the shade of Scartaris covery, before the reach the center of the earth. I did it.

"ARNE SAKNUSSEM." My uncle leeped three feet from the ground with He knocked over tables and chairs. He threw his

the map,

books about until at last uttorly exhausted he fell I rose, went to the shelf, and presently returned into his arm-chair. "What's o'clock?" he asked. with the volume indicated "Thus," said my uncle, "is one of the best maps. "My dinner does not seem to have done me much of Ireland. I believe it will settle all your doubts. difficulties and objectious," We can then start at once. Get my portmentous

"What for ?" "And your own," he continued. "We start at My horror may be conseived. I resolved how-

ever to show no fear. Scientific reasons were the only ones likely to influence my untile. And there were more analyst this terrible impress. The ways idea of going down to the center of the earth was point after dinner.

My uncle's rare was now directed against the

During the remost way uncle was rather pay then otherwise. He made some of those peculiar takes which belong exclusively to the learned. As soon,

atudy. We each took a chair on opposite sides of "Henry," he said, in a soft and winning voice:

"I have siways believed you ingenious, and you have you, this great, this wondrous discovery would never have been made. It is my duty, therefore, to invist on your sharing the story." "He is in a good humor," thought It "Til soon let him know my cainion of glory,"

"In the first place," he continued, "you must keep the whole affair a profound socret. There is no more envious race of men than scientific disconserve. Many would start on the same journey,

"I doubt your having many connections," was my "A man of real attentific acquirements would be

delighted at the charge. We should find a perfect atream of pilerims on the traces of Arne Saknusson, if this document were once made public." "But my dear sir, is not this paper very likely

"The book in which we find it is sufficient proof "I thoroughly allow that the contrated Professor wrote the line, but only, I believe, as a kind of

Scarcely were the words out of my mouth, when I was forry I had uttered them. My uncle looked to be alarmed for the results of our conversation. with a decisive combania,

"But see, what is all this about yokul, and Spoffels, and this Sportsrip? I have never board "The very point to which I am coming. I lately

With a grim hope to the contrary, I stroped over

"TOU see, the whole island is made up of wales. nous,"said the Professor, "and note that they all hear the name of yokul. The word is Icelandic, and means glacier. In most of the lofty mountains of that ramen the volcanic erentions come forth from ice-bound coverns. Hence the name apphed to every volcano on this extraordinary island."

"But what does this word Spellels mean?" To this question I expected no reticual answer, I was mistaken, "Follow my finzer to the western count of Iceland, there you see Reykjawik, its

able fierds or arms of the sea, and what do you "A peningula-very like a thigh-bone in shape," "And in the center of it---?"

"A mountain," "Wall, that's Speffels,"

"That is Sueffels—a mountain about five thousand feet in height, one of the most remarkable in the whole island, and certainly doorsed to be the most celebrated in the world, for through its

"Immenible!" cried I, startled and shocked at "Why impossible?" said Professor Hardwigg in

"Because its crater is choked with lave, by burning rocks-by infinite dangers." "That would make a difference." "Of course it would. There are about three hun-

fired velexnoss on the whole surface of the globshat the greater number are extinct. Of these Smaffels is one. No cruption has occurred since 1215-in fact it has ceased to be a volcano at all." After this what more could I say? Yes-I thought of another objection, "But what is all this about

My upole reflected deeply. Presently he prime forth the result of his reflections in a sententious tone, "What appears obscure to you, to me is light, This very phrase about how particular Sakmussem many realors. He is caroful therefore to rejust out the exact one which is the highway into the Interior of the Forth. He lets us know, for this purpose, that about the end of the month of June,

the shadow of Mount Scartagia falls upon the My uncle had an answer for everything, "I acis right. He found out the entrance to the bowels or savone else ever followed up the discovery, is

Labour, a man. Toke down the third atlas from madness to suppose," "Why so, young man?" "All scientific teaching, theoretical and practical, stewn at to be impossible." It are nothing for theories, "retorted my unde-"It are nothing for theories," retorted my undefinit is it not wall-known that best increases can degree for every seventy first you descend infoto earthy which gives a fine idea of the central bests. All the natives which compare the gobe are the burdet rots are in a state of fusions. What

the hardest rocks are in a state of fusion, would become of us?"
"Don't be alarmed at the heat, my boy."
"How as?"

"More so?"
"Notither you nor saybedy else knows saything about the real state of the searth's inheiror. All moderns emrorance tests to contain the modern terminate the contains the opportunity of the earth would be shattered to atere, and the world would be at an end."

A long, learned and not uninteresting discussions followed, which ends is that "I'do not better in

to multiply; and the only way to harn, is like Arno Sakatanesa, to go and see,"
"Well," cred I, overcome at last, "let us go and see. Though how we can do that in the dark is

"Four nothing. We shall overcome these, and many other difficulties. Besides, as we approach the Center, I expect to find it luminous..."

Canter, I espect to find it luminous——"
"Nothing is impossible."
"And now that we have come to a therough understanding, not a weed to any living soul. Our success depends on screep and despatch."
Thus ended our memprable ounderspoon, which

Thus ended our mergerable conferences, which roused a perfect fewer is me. Leaving my until, I went first hike one possessed. Statching the bank of the Bibe, I bepar to thinks. Wes sell I hold beard really and truly possible? Was my uncle in his solver sames, and result his interior of the serial her exactual? Was I the vittims of a madman, or was he a discoveree of rare courage and greatfour

To a certain extent I was amount to be off. I was affailing within size would col. I determined to pack up at ence. At the end of an hear, however, on my way hours, I found that my feelings of the ence of the e

minutes she could not speak. "Well?" I at last asked, rather arctically.
"What a sugnificant journey. If I were only a man! A journey worthy of the nephers of Professer Hardwigz. I should leek upon it so an hence to accompany ham."
"My dant Gretchen. I thought you would be the

first to cry out against this mad enterprise.
"No; on the contrary, I given in it. It is magnifient, splendid—an idea worthy of my father. Hurry Lawson, I cavy yea."
This was, as it were, conclusive. The final blow

This was, as it were, conclusive. The final blow of all.

When we entered the house we found my unels aurrounded by workman and necture, who were

packing up. He was priling and healing at a bell "Where have you been wanting your time! Your pectranniave as not packed—my pages are not in order—the packeds which his not brought picketes, nor my gatters—the key of my carpet hag is gree!"
I isoled at him stupefied. And still be tagged away as the bell. "We nor creally off, then?" I good.

nfortunate boy!"
"And when do we go?"

"The day after ico-correct, at daybreak."

I hand no never; beit daried of to say little bedelininder and locked reyself in. These were to be about the say little bedelininder and locked reyself in. These were to work all the afternoon. The greake was full of ropes, repo-hadars, teerhes, ires sharps, everwhear, and the say of th

recurved the keys of the house; and, sourcely pausing to wish anyons good-bys, we started on our adventurous journey into the center of the Earth

CHAPTER V

And Allens, a study of Ensirence, in the claim of the College School and the College School

A Alsa is little Darisks otherers, the Yalfspris, was to sail on the sected of June for Reykjawik. The explain, M. Bjarns, was on beard, and was rather surprised at the energy and cardinity with which his future passenger shook him by the hand. To him a worage to feelbard was merely a marker of course. My unoke, on the other hend, considered the waxni of sublike importance. The horsest ander troke

"On Tuesday morning at seven o'clock be on

uncle as we sat down to a late breekfast; "refresh yourself, my boy, and we will take a run through Our meal concluded we went to the Kenrens-Nye-

the other liens of the place,-none of which my usele even now, so absorbed was he in his series-

But one thing struck his fancy, and that was a the city of Conculueur. My uncle at once ordered comstance, which was, that its rather elevated steeple started from a circular platform, after round to the very summit. "Let us second," said

"But I never could climb church towers," I cried,

"The very reason why you should go up. I want "But my good sir-"I tell you to come. What is the use of westing

so much valuable time?* It was impossible to dispute the distatorial commands of my uncle. I yielded with a gream. On payment of a for, a verser gave us the key. He. for one, was not nartial to the ascent. We uncle at once showed me the way, running up the steps like a school-boy. I followed as well as I rould. though no sooner was I outside the tower, than my head begon to swim. There was nothing of the Still things did not go badly until I had accended 150 sters, and was near the plotform. Then I began to feel the rush of cold air. I could sourcely The railings were frail enough, but they seemed winding staircoss, that appeared, from where I stood, to second to the skies.

"Now than, Harry," "I can't do it!" I cried, in accents of despair. "Are you, after all, a coward, sir!" said my To this there was no raply possible. And yet the

"Look around you," said my uncle, in a stern Stowly, and shivering all the while with cold. I as by some optical delusion appeared to stand still, one side could be seen the grassy plain, while on the other lay the sea bathed in translucent light, bayund the point of Elsinore, crowded with white suils, which, at that distance, looked like the wines of sea-gulls; while to the east could be discovered the far-off coast of Sweden. The whole appeared a Faint and bewildered as I was, there was no remedy for it. Rise and stand up I must. Despite

while the steeple, the weathercook, and our two selves were carried swiftly along. For away on

my protestations my first lesson lasted quite an boter. When, nearly two hours later, I resched the botom of mother earth, I was like a rhoumatic oil man bent double with pain. "Enough for one day." seld my uncle, rubbing his hands, "we will begin There was no remedy. My lessons lasted five days,

spread, and found myself able to look down into the

OUR VOYAGE TO ROBLAND

THE hour of departure came at last. The night before, the worthy Mr. Thompson brought us the most ourdial letters of introduction for Court Trampe, Governor of Iceland, for Mr. Pictursson, condjutor to the bishop, and for M. Finnen, mayor of the town of Revkiswik. In return, my uncle nearly crushed his hands, so warmly did ha shake them,

On the second of the month, at two in the morne ing, our precious cargo of luggage was taken on hoard the good ship Valkyrie. We followed and small cabin with two standing hed places, neither vary wall ventilated nor vary comfortable. But in the cause of science men are experted to suffer, "Well, and have we a fair wind?" cried my uncle. "An excellent wind!" replied Captain Blarne;

"we shall leave the Sound, some free with all salls set." A few minutes afterwards, the schoozer started before the wind, under all the convex she could carry, and entured the channel. An hour the waves, and we were at no great distance from the coast of Elsinore. My uncle was delighted; for myself, moody and dissatisfied, I appeared almost to expect a plismae of the shoot of Hamlet.

"Subline makman," thought I, "you doubtless, would approve our proceedings. You might perhams even follow us to the center of the earth there to resolve your stemal doubts." "How long will the voyage last?" saled my uncla-

the skinner. "unless, indeed, we meet with some porth-seat sulen amone the Parce Islands,"

delay," cried the impatiant Professor "No. Mr. Hardwige," said the centain, "no fear of that. At all greats, we shall get there some The voyage offered no incident worthy of record, acquing, and were sharm, was remarkably mostific. This read de sure troubles him the more, that the revenued shim from questlenting Cuptain Blazza as the subject of Soeffels, as to the manns of communication, and the facilities of brassport. All these explanations he had to adjourn to the partial of his arrival. His time measurable, was speak brant belowed for termination of the voveres. I did not hoved for termination of the voveres. I did not have been supported to the contraction of the

poly him. De the eleventh day we slighted Cape Porthard, our which towered Mount Myrchis Yakid, which, the policy of grantin standing nated and siene to most the Allasatic waves. The Yakityric kays of the const, stearing to the wentward. On all adds were to be seen which "wholes" of whiches and about A. After come learn we came in highly for a solitory rock, in the coses, forming a mighty with, around which he are a mighty with, around which he was provided to the policy with the policy of the coses, forming a mighty with, around which he was the policy of the policy with a policy w

tours we came in sight of a soiling rook in the scoot, forming a milety with, around which the scoot, forming a milety with, around which the fourning waves poured with intense fury. The listin of Westman appeared to large from the sceen, before so law in the water as scorecely to be seen, until you were right upon them. From that merant the achience was observed to the weatward in order to round Gups Replýgiaces, the western point

in melis, to big great digrant, was unable even to cover on deck, no keeps a see was eq. and thus lest the first view of the Land of Premise. Forty-eight hours linker, after a charm which drove us far to see under bore poles, we came cace sares in eight of land, and were beared by a pilot, who, after three hours of disegences navigation, beaught to schoours actify to an anchor in the toy of Paint the schoours actify to an anchor in the toy of Paint.

before Roykjawik.

My male came out of his enhin pala, langrard,
this, but full of enthralasm, his open effected with
pleasme and satisfaction. Neverth the whole southtion of the form was on foot in a river the southtion of the form was on foot in a few parts
peried ones pools by the period of them but on
peried ones pools by the periodical wasole.

Professor Hardwigs was in hoste to leave his
prince, or rather as the coiled it, his benjoid; but

Mount Snefficial Without further remark, he put his finger to his lips, frowned darkly, and decomized into the small best which awaited us. I followed, and in a few minutes we select upon the soil of mysterieus

Surrely were we fairly on shore when there appeared before us a must of excellent appearance, wasning the conturns of a military officer. He was, herever, but a divid savant, a majestrate, the govceme of the island—Barne Trempe. The Professor have when he held to deal with. He havefore handed him the letters from Grepainers, and a herefor conversation in Danish Shinoul, to which, I do for I did not know the language in within they conversed. I afterwards heart, however, that Barne. character and comparing quite on parties. As not bein condigion, I. Seiturason, he was absent on as the condigion, I. Seiturason, he was absent on as the condigion of posteror of the growth of the condigion of the lower was condigional or the condigion of the sent cannot be understand on another. But was, in tental during the whole period of any recebeor on

My uncle was also most graciously received by

was quite as military as the governor, but also from

Out of three recess of which his hears was composed, two were placed at our receive, and in a few hears we were installed with all our begrage, the amount of which rather settembled the simple inlabitants of Reykjewit.
"Now, Herry," and my uncle, rabbing his hands, "all goes will the word difficulty in now over." "all goes will the word difficulty on the reresemble the settemble of the place of the remembership.

"Doubtless. Here we are in Iceland. Nothing more remains but to descend into the bowels of the earth."

"Well, sir, to a cartain extent you are right. We have only to go down—but, as far as I am cornod, that is not the question. I want to know

how we are to got up again."
"That is the least part of the briefness, and does
not in any way froutie me. In the manatims, there
is not an bour to lose. I am about to visit the
public liberary. Very likely I may find there some
manuscripts from the hard of Sahnussem. I shall
be side to consult them."

at through the soon. Will you set likewise do not?

"If set a distance in the subject," said my uncle.

"What for me in criticus in this inland, is not what
is above the currice, but which is below.

It was not so may make a before the control of the control of

as as. On the other hand is the large hay of Foxa, bordered or the north by the energous glader of as Smottles. In the hay the Fellysie was then the cally wead at ancher. Generally there were one or two particles in the effine. However, they were now a sheet on duty.

In three hours my tour was complate. The gen-

r erid impression upon my mind was saftness. No ear trees, no vegetation, so to speak—on all addes veda canic peaks—the latts of turf and earth—mars like f roofs than houses. Thanks to the least of three sections, grass grown on the roof, which grass is

AMAZING STORIES beach, drying, saiting and loading cod-dah, the principal article of expertation. The men appeared

jawik; "you speak of one of the most distinguished scholars of the sixteenth century, of the great persive more exiles of a higher scale in the ladder naturalist, the great alchemest, the great traveler." of humsnity than the Esquiment, but, I thought, "Evartly so." much more unhappy, since with superior perceptions they are compolled to live within the limits of the Polar Circle. "A man illustrious above all." CHAPTER VII

CONVERSATION AND DISCOVERY THEN I returned, dinner was ready. This mest was devoured by my worthy relative with avifity and voracity. His shipboard repeat, which was more Danish thus Icelandic, was in riself nothing, but the excessive hospitality of our host made in enjoy if doubly. The conversation turned upon scientific motters, and M. Fridriksson

asked my uncle what he thought of the nubite "Library, sir!" cried my uncle; "It appears to me a collection of useless odd volumes, and a beggarly amount of empty shalves "What!" oried M. Fridriksson: "why, we have

eight thousand volumes of most rare and valuable works-some in the Scandinavian language, besides "Right thousand volumes, my dear sir-why,

where are they?" cried my uncle-"Scattered over the country, Professor Hardwigg. We are very studious, my dear air, though we do live in Sceland. Every farmer, every laborer. think that books instead of being looked up in he distributed as widely as possible. The books of without returning to the library abelyes perhaps

"Then when foreigners visit you, there is noth-"Well, sir, foreigners have their own libraries. and our first consideration is, that our humbler classes should be highly educated. Fortunately, the honorary members; we publish books destined to

the honor, Professor Hardwigg, to enroll you as an My uncle, who already belonged to nearly every literary and scientific institution in Europe, immedistriv visided to the arriable wishes of cood M. expressions of gratitude and good-will, "if you will

I may be of some assistance to you, I watched my until keenly. For a relaute or openly was, perhana, to unwill his projects. Nexurtaining, if among other valuable works, you had

"One of the most distinguished men connected

"Yes, sir, all this is true, but his works?" "We have none of them. "Not in Ioeland?" "There are none in Iceland or elsewhere," am-

"Arme Sakmassem!" cried the Professor of Rayle.

swered the other, sadly. "Why so?" "Because Arne Saknussam was persecuted for hereay, and in 1973 his works were publicly burnt

at Copunhagun by the hands of the common hang-"Very good! capital!" murmured my uncle, to the

great astonishment of the worthy Icelander. "Yes, yes, all is clear, I see the link in the chain; everything is explained; and I now understand why

graph, the secret-"

"A secret-which," stammered my uncle "Have you discovered some wonderful manuscript " "No, no. I was carried away by my enthusiasm. A mere supposition "Very good, air. But, really, to turn to another subject, I hope you will not leave our island with-

"Well, the fact is, I am rather late. So many loarned men have been here before me, "Yes, yes, but there is still much to be done," cried M. Fradriksson. "You think so," said my uncle, his eyes twinkling with hidden satisfaction "Yes, you have no idea how many unknown moun-

tains, glacters and volcanous there are which remain can show you one. Yender on the edge of the herinon, you see Spoffels." "Oh yes, Sneffels," said my uncle. "One of the most curious volcances in existence. educate our people, and these books have rendered the crater of which has been rarely visited." valuable services to our country. Allow me to have

"Extinct for the hat five hundred years," was the roady reely "Well," said my uncle, who dug his neils into

his flesh, and pressed his knees tightly together to prevent himself leaping up with joy. "I have a great mind to begun my studies with an examination

"Speffels, my dear sir." This portion of the conversation took place in

Eight and satisfaction. I senst confess that his artful grimness, put on to concest his happiness, made him look like a new Mechistopholes. "Yes, yes," he continued, "your neconsition delights rea I will

A TRIP TO THE CENTER OF THE EARTH

it possible, will descred into its ewiter."

"I very much regret," continued M. Fridriksson
"I very much regret," continued M. Fridriksson
historia better than, but his uppearance space of
sability of my accompanying you. It would have
been both possibles of my description from anybody, who histor to
been both possibles if I could have
with what his highly spoor, and whose inhibations with what his highly spoor, and whose inhibations in

spared the time."
"No, no, a thousand times no," cried my uncle.
"No, no wash to disturb the sevently of any man.
I thank you, however, with all my heart. The presume of one so learned as yourself, would no doubt have been most useful, but the distinct of your offset.

mave even more manual out on outers of your owner and profusion before everything.

In the innocence of has sample heart, our host did not perceive the ireou of these remarks. "I entirely approve your project," be continued after some further remarks. "It is a good idea to begin by someting this volume. You will make a haywest

by sommining this volcano, You will make a harvest of carrious observations. In the first place, how do you propose to get to Smaffels? "By son, I shall cross the bay. Of course that

is the most rapid route.
"Of course. But still it cannot be done."
"Why?"

"Why?"
"We have not an available best in all Reykjawik,"
replied the other.
"What is to be done?"

"You must go by land along the coast. It is longer, but much more interesting." "Then I must have a guide."

"Of course; and I have your very man."
"Bomebody on whom I can depend?"
"Yes, an inhabitant of the communic on which

"Yes, an inhabitant of the permusah on which Socilete is attented. He is a very shrewd and worthy man, with whom you will be pleased. He speaks Banish like a Dane."
"When can I see him—to-shy?"

"No, to-morrow; he will not be here before."
"To-morrow be it," replied my uncle with a deep sigh.
The conversation ended by compliments on both sides. During the dinner my until had knamed

The conversality ended by compliments on both sides. Daring the dimer my saids held learned much as to the history of Arno Sukuussem, the resears for his mysterous and hieroglyphical document. He also become aware that his host would not accompany him on his salventureus expedition, and that next day we should have a guide.

CHAPTER VIII THE ESSESSOWN HUNTER-OFF AT LAST

Total central took a brief with on the above one Replayers, after which I returned to me to Rept lines, after which I returned to me to the pile to the pile. Which nawes I lead the sheet of the Jult. Which nawes I lead to baddy and joured here. He was thing or branch of joured here. He was thing or branch and joured here. He was thing or branch here have been a present to be postessed of very green trangels. His cost, which shrelder piles has the Mill. This am supported to be postessed of very green trangels. His cost, which shrelder piles has the piles which the piles which the piles have been described and includent. Were Jung bad, which compared to the piles with the piles and include the piles and the p

systiculation common to southern secole.

induced about him, but his appearance spain of tranguilly. He was one of those who never second to capset anything from anybody, who filed its week when he includit propur, and whose philosophy neithing could astorable or trouble. Thegas to comprehen the character, simply from the way in which he listanced to the wild and impassioned workinged of my workly unch. While the

I began to comprehend his character, samply from the way in which he listened to the wild and impassioned writings of my worthy unche. White the conclient Professer spoke sortione after sentence, he stood with folded arms, utterly still, moticolose to all my unobles gestionalizations. When he wanted to say no he mored his head from left to right; the when he semislated, he models so slightly that you

count sourcely see the unfounded or his field. Into economy of motion was carried to the length of awarde.

Judging from his appearance it would have been a long time before I would suspect him to be what he wend a mightly businer. Certainly his meanage was not likely to frighten the game. How, then, did he construct to set at his ware? Me surprise

was slightly modified when I know that this tranquil and solution paractage, was only a hundre of the differ-dark, the down of which is, after all, the greatest source of the Loplanders' wealth. This grave, seatherlives, silent person, as phile-

maik is an Englishmu on the French steps, was named Ham Bjelke. He had caffed upon us in consequence of the recommendation of N. Fridrikson, He was, in fast, our future guide. It struck me that had I sought the world over, I could not have found a greater contradiction to my impolice wale. However, they readily understood one an-

have reein a greater contribution to my improvements. However, they readily understood one another. Notither of these had any thought about measy; one wor ready to this all that was offered bin, the other residy to offer anything that was asked. It may restiff be conceived, then, that an understanding between them was soon reached. The understanding was, that he was to take us

slape of the periments of Smortes, at the very fine of the velocine. Beam, the quive, find us the full-trace was about twenty-dwn mins, a journey which when my make related that flay were moderate for smortes of sight flourisan grants each, he was obliged to be more moderate in has oless, and considering the more moderate in has oless, and considering the minst short of the sight flower of the sight flo

more veryg inch of that part of the cost, and premised to take us the very shrivest way.

This engineement with my uncle was by so means to cease with any uncle was by so means to cease with any uncle was by so means to cease with any uncle was by so means to cease with any uncle was by so means to cease with any uncle was by so means to cease with any uncle was by so means to cease with any uncle was a part of the three parts of the schedule for the control to the control to

was to be paid to him every Saturday night, failing which, his engagement was at an end. The day of our departure was fixed. My unable whiched to hard the advantages hunter an advance.

but he refused in one emphatic word-"Efter."six months. The only liquid provided by my uncle which being translated from Ioslandie into plain was scheldam. Of water, not a drop. We had, however, an ample supply of gourds, and my uncle "The treaty concluded, our weethy guide retired without another word. "A splendid fellow," said counted on finding water, and coough to fill them. an soon as we commanded our downward forener. My remarks as to the temperature and quality

my uncle; "only be little suspects the marvelege part he is about to play in the history of the

"You mean, then," I crisd in amenement, "that be

"To the Interior of the Earth, yes;" replied my uncle. "Why not?" There were forty-eight hours more to alague before we made our final start. Our whole time was telesa

up in making properations for our journey. All our industry and ability were devoted to packing instruments on one side, the arms on the other, the

tools here and the provisions there. There were, in fact, four distinct groups. The instruments were, of course, of the heat

L. A centigrade thereconster of Einel, counting up to 150 degrees, which to me did not expect held enough—or too much. You but by half, if the degree of heat was to second so high-in which case we should certainly be cooked-not enough, if we wanted to ascertain the exact temperature of

2. A seasoneter worked by the pressure of the atmosphere, an instrument used to sacertain the

would not have done as well, the atmospheric pressure being likely to increase in proportion as we 3. A first-class chronometer made by Bolssonnas, of Geneva, set at the meridian of Hambury, from

which Germans calculated as the English do from 4. Two compasses, one for horizontal guidance,

5. A night glass, 6. Two Rubmkorf's colls, which, by means of a

current of electricity, would ensure us a very excellent, easily carried, and certain meens of obtain-. A voltage battery on the newest principle, Our arms consisted of two rifles, with two re-

volvers. Why these arms were provided it was believe that we had neither wild beasts nor savage natives to fear. My uncle, on the other hand, was instruments, and above all was very careful with his provision of fulminating or gun cotton, warranted to keep in may climate, and of which the

Our tools consisted of two pickaxes, two crowbars, a silten rose ladder, three iron-shod Albine stocks, a hatchet, a hammer, a docen wedges, some You may conceive that the whole made a telerable

parcel, especially when I mention that the ludder Then there eams the important question of provisions. The hamper was not very large but more

being found, remained wholly without effect. To make up the exact list of our traveling gearfor the suidance of future travelers-I will add all spearstus necessary for wounds, fractures and

blows: Ent., sessoes, lancets-a perfect collection of horrible-looking instruments; a number of phinks containing ammonia, alcohol, other, Goulard water, aromotic vinegar, in fact, every possible and impossible drug-finelly, all the materials for work-

My uncle had also been careful to lay in a goodly surely of tebecco, several facies of very fine renpowder, boxes of tinder, besides a large belt crammed full of notes and gold. Good knots rendured water-tight were to be found to the number of six in the tool-box. "My boy, with such clothing, with such boots, and such general equipments.

said my uncle, in a state of rapturous delight; "we-It took a whole day to put all these metters in order. In the evening we dired with Baron Trampe, in company with the Mayor of Revinewic, and

therefore, I did not understand a word that was The next day our labor came to an end. Our worthy host delighted my made, Professor Hard-

Our last evening was spent in a long conversation with M. Fridriksson, whem I liked very muchthe more that I never expected to see him or any one also senin. After this agreeable way of spending an hour or so, I tried to sleep. In vain; with the exception of a few dozes, my night was miser-At five o'clock in the morning I was awakened

from the only real half-hour's sleep of the night, by the load neighing of horses under my window. I hastily dressed myself and went down into the street. Hans was engaged in putting the finishing stroke to our bargage, which he did in a silent, It admirably well. My uncle wasted a great deal of breath in giving him directions, but worthy Hams

expensive force was known to be greater than that At six o'clock all our preparations were completed, and M. Fridriksson shook hands heartily with us. My unde thanked him warmly, in the Icelandic lanmy best Letin phrases and redd him the highest compliments I could. This fraternal and friendly duty serfermed, we sailed forth and mounted our

As soon as we were oute ready, M. Fridriksson advanced, and by way of faresuell, called after mo in the words of Virgil-words which appeared to have been made for us, travelers starting for an uncertain destination.

"Et queenisse cons dederit fortuse copuessur."

("And whichsoever way fortune provides may us deliter it.

CHAPTER IX

CHARLES AND THE ADMINISTRATIVE THE NAT JOHN STRIP SERVICE AND THE SERVICE AND THE JOHNS OF THE SERVICE AND THE SERVICE AND THE JOHNS OF THE SERVICE AND THE SERVIC

It was fust before we left Reykjawik that I came to this decision. Hans, our extraordinary guide, or spar. My uncle and I come hebled, cutting very tolerable figures upon our small but vigorous animals, Have, on taking his departure from Resktawik had followed the line of the asa. We took our way through poor and sparse meadows, which made a desperate effort every year to show a little green. They your variety surposeded in a good show of vellow. Every now and then a sour of rock came room to pass. Our horses, however, appeared not only well accominted with the country, but by a kind of instinct, knew which was the best road. My uncle had not even the satisfaction of urging his steed forward by whip, sour, or voice, It was utterly useless to show any signs of impatience. I could not help amiliang to see him look so hig on ing the ground made him look like a six-footed

centure. "Good heart, pool heart," he would rey. "It now you, there that it is all and it may be a seen and it move you. There that in feature there is always to be a feet the transport of the pool of the transport of transport of the transport

us we shall do our ten leagues a day."
"We may do no," was my reply, "but what about our worthy guide!"
"I have not the slightest armiety shout how: that

our warms grains.

The property of the propert

The country we had reached was already nearly a desert. Here and there could be seen as building desert. Here and there could be seen as building form, some seltings hole, or leelandin bouse, built, of word, early, fragments of lines—busings file begaves on the highway of life. These wereholds distributed to live a line as the except does, the file had dispessed to liceva line at every does, but this country there are no reeds, paths are sensity unknown, and vegetation, poor as it was showly as it reached its full growth, some obliterated ultraces of the few textures who passed from place to

A few stray cows and sheep were only seen occasionally. What, then must we expect when we come to the uphrawed regions—to the districts broken and roughened from redestric eruptitees and subterrancess commoditien?

We were to learn all this in good time. Luon, between, on consuling the roar, that we avoided a good deal of this rough country, by following the winding and describes tokens of the sale. It really the great restaurance of the kined, and all interior of the bland; there, become to great and interior of the bland; there, become to great and rocks, glide one upon the other, cruptions of baselite origin, and streams of lives, have given this country as kined originational regulation.

Secretary was appropriately of nature's reliable for the change of the control of the change of the

adard where we were to pass the night was as biscoile as usual. Valuable!" was his con-worded reply.

I took occasion to enough the map, to see where Gardar was to be found. After looking heavy! I found a small town of that amon on the bender of the Houliyerd, about four miles from Reyidowich. I pointed then out to my until, who made a very

I pointed this out to my uncle, who made a very energetic grimace. "Only four miles out of twenty-two? Why it is only a little walls."

He was about to make some energetic observation to the wulds, but Hurs, without taking the

slightest notice of him, went in front of the horses, and wallood shead with the same imperturbable

Still traveling over those apparently interminable morecut when the seas at its highest point, in in a attate of slack water. As nutber the abb nor flow can then be felt, the ferry boat was in no danger shore between high rocks and the sea, we same to of burng carried out to see, or deshed upon the the "acolkirkje" of Brantar, and after another

The favorable moment did not come until six ated on the morthern bank of the Hyalfford. It was o'clock in the evening. Then my uncle, myself, and guide, two boatreen and the four bornes and tete a very awkward flat-bottom boat. Acceptomed as The fjord was in this pisce about half-a-colle in I had been to the steam furry-boats of the Elbe. I width. The aweeping and broken waves came rolling in upon the pointed rooks; the guif was sur-

found the long cars of the boatmen but serry means of lecemetics. We were more than an hear in rounded by rocky walls-a mighty cliff, three thoucrossing the flord: but at leagth the message was aund feet in height, remarkable for its brown strata. concluded without accident. Half-an-hour later we arparated here and there by bads of tafa of a reached Gardaz. reddish has. Now, whatever may have been the reliance upon them, as a means of crossing a storms arm of the see. To ride over salt water men the

back of a little horse seemed to me shourd. T cught, one would have thought, to have been "If they are really intelligent," I said to myself, "they will cortainly not make the attempt. In avebut still the nocturnal illumination did not sur-

case, I shall trust rather to my own intelligence thun theirs." and July, the sun never sets. The temperature, But my uncle was in no humor to walt. He dag was cold, but even that did not affect me so work the shore. His horse went to the very edge of the as raverous hunger. Welcome lodged, therefore, water, smiffed at the approaching wave and rewas the but which hospitably counted its doors to us.

My ancle, who, rooth to say, was quite an obstrate matter of hospitality, it was worthy of being the as the heast he bestrode, insisted on his making the restant of a long. As we alighted at the drop the desired advance. This attempt was followed by a master of the house came forward, beld out his new refusal on the part of the burse, who quostly hand, and without any further parement, alreaded to us to fellow him. We followed him, for to acfollowed by a veller of words and a stort arelies. company ham was impossible. A long, narrow, tion of whitecord; also followed by kicks on the part of the borne, which threw its head and beels on, made from beams roughly squared by the ax. This passage keep ingress to every room. The the stardy little pony, spreading out his keep in chambers were four in number-the kitchen, the work-shop, where the weaving was carried on the professor's legs, and left him standing, with both general sleeping-chamber of the family, and the feet on a senerate stone, like the Collegge of

vited. My uncle, whose lofty stature had not been "Wretched animal?" cried my uncle, suddenly taken into consideration when the house was built, transformed into a foot possensor-and as angry contrived to knock his head against the beams of the And ashamed as a dismounted cavalry officer on the

best room, to which strangers were conscially in-

were very friendly with the whole party, and he-

As soon as we had freed ourselves from our "Forjo," said the guide, tapping him familiarly heavy traveling costume, the voice of our host was heard calling to us to come into the kitchen, the "What, a ferry boat!" only room in which the Icelanders over make any

"Der," answered Hams, pointing to where lay the fire, no matter how cold it may be. My mule, bothing bath, hastened to obey this hospitable and friendly invitation. I followed. "Well," I gried much relieved by the information; "so it is,"

On our entrance, our worthy best, as if he had "Why did you not say so before," cried my uncle; not seen us before, advanced ceremoniously, attered a word which means "be hancy," and then blosed

both of us on the cheek. His wife followed nec-"What does he my?" I select considerably nounced the same word, with the same coromonial. puzzled by the delay and the dialogue. then the husband and wife, alsoing their vight hands

"He says tide," replied my unde, translating the Danish word for my information This excellent Scalandic woman was the mother of

"Of course, I unferstand-we must wait till the nineteen objideen, who, little and hig, rolled, tide serves." erawled, and walked about in the midst of volumes of ample ariting from the angular freedom in the

"Jo. replied Hens. middle of the room. Every now and then I could My uncle frowned, stamped his feet and then see a freek white hand, with a slightly melanchely expression of countenance, peering at me through oughly understood and appreciated the necessity the vapor. Both my untle said myself, however,

for waiting, before crossing the flord, for that

every possible and impossible key. Those who did ment of supper. Just then our worthy guide, the letting them loose to browns on the stunted green of the Icelandic prairies. There was little for them to eat, but mees and some very dry and insutstitions

grass; next day they were ready before the door, "Welcome," said Hans. Then tranquilly, with the air of an automaten, without any more expression

our boxes, and the rest hanging about our legs,

This ceremony cancluded to the satisfaction of all narties, we all sat down to table-that is twentyfour of us-somewhat crowled. These who were more fortunate had only two jeveniles on their even to Icelandic bables, prevailed ever all else. Our Post filed our plates with a portion of Liches goin of Iceland moss, of hy no means disagressable

of cords of whey, served with biscults and funiperherry lufes. To drink, we had "blands,"-skimmed milk with water. I was hungry, so hungry, that thick cat-meal porridge. As soon as the supper was over, the children disarms and the group people ant around the fire-

all retiring to their respective courbes. Our hostean effered to not off our stockings and trousers, according to the custom of the country, but as we grantenaty declined to be so honored, she left us to

At five in the morning pext day we took our leave. My uncle had great difficulty in making them accept a sufficient and proper remuneration. That rivers rich in trout and plits, we were compelled mythology. The King of Cold had taken up his

The two following days were remarkable for their damp and swampy soil; the same dreary whifeemity; the same and and monotonous supert of

weethy guide; for they appeared to regard this On Saturday, the 20th of June, at six o'clock in the evening, we reached Budir, a small town picturesquely situated on the shore of the ocean; and here the colde raked for his maney. My uncle

my uncle, who did not require rest, had no idea of anything of the kind; and despite the fact that next day was Sunday, I was compelled once more The soil was again affected by the neighborhood of the mountains, whose granite peared out of the ground like tons of an old oak. We were skirting the enormous base of the mighty volcane. My uncle

from gasticulating, and looked at it with a kind of sullen defiance as much as to say "That is the After four hours of steady traveling, the borses stormed of thursselves before the door of the presbytery of Stapi. We had reached the fact of the

CHAPTER XI WE BEACH MOUNT SNIEPELS-THE "REVER"

"TAPI is a town consisting of thirty buts, built On a large plain of lave, exposed to the rays of the sun, reflected from the volcana. It stretches on a large plain of lave, exposed to the rave of character. Here we found Nature proceeding geometrically, and working quite after a human fashion, as if she had employed the plummet line, the contrast and the rale. If elsewhere she produces grand artistic affects by pilling up haze masses without order or connection-if elsewhere we see truncated cones, imperfect pyramids, with an odd succession of lines, here, as if wishing to tects of the early ages, she has erected a severe order of architecture, which neither the splandors

passed. The walls of the fjord, like nearly the whole of the mericania, consisted of a series of vertical columns in height about thirty feet. These unright pillars of stone, of the finest proportions, supported tain intervals, and below this patural beain, the soo was vicased and supprised by the sight of eval openings through which the outward waves come thundering in volleys of from. Some books of basult, tors from their fastenings by the fury of the waves, lay scattered on the ground like the runs of an ancient terrole-ruing sternally young, over

which the storms of ages sweet without producing any percentible effect! his was the last stage of our journey. Hans had becordt us along with fidelity and intelligence,

and I becan to feel somewhat more comfortable farther on our way. When we halted before the house of the Rectur, a small and incommodious cable, neither handsome nor more comfortable than those of his neighbors.

AMAZING STORIES

in his hand, and a leathern aprop tied around his tainly be lost in the midst of the laboranth of subterranean gallerses of the volcano. Now, we have "Be happy," said the elder-down hunter, using his no evidence to prove that Speffels is really extract. What rooof have we that an evention is not abortly "Good-slap-good-day!" replied the former, in exshout to take place? Recourse the recorder has shout soundly since A. D. 1229, does it follow that he may

"Karkokerde," cried Hans, turning round and introducing him to my uncle. "The Roctor," repeated the worthy Professor;

"it oppears, my dear Harry, that thes worthy man is the Rector, and is not above doing his own work."

of the case. The good man, coasing from his occupation, gave a kind of halloo, upon which a tall weenen, almost a mantees, came out of the hut. She borror. I thought she had come to give us the Icelandic kiss. However, I had nothing to fear,

for she did not even show much indirection to re-

The room devoted to strangers appeared to me to be by far the worst in the presbytery; it was choice about the matter. The Rector had no notice pitulity. My uncle soon became aware of the kind of man he had to deal with. Instead of a worthy peasant. He therefore resolved to start on his great

days in the mountains, if necessary, The preparations for our departure were made new hired three Icelanders to take the place of the horsen-which could no longer carry our luggaces. Homesar, when these worthy Icelanders had reached the bottom of the crater, they were to go back and leave us to ourselves. This point was settled before they would agree to start. On this occasion, my uncle partially confided in Hens, the eider-duck

Hars listened calmly, and then nodded his bead, To so there, or elsewhere, to hery himself in the

more brought to realise the actual state of affairs. had intended to leave Professor Hardwice to his fate, it should have been at Hamburg and not at

One idea above all others began to trouble me: the perves of a man far less sensitive than myself,

it and did not perish from that course. "But that is not the whole matter to be considered. If a read does really present itself by which to descend into the dark and subterraneous nursem really did tell the truth, we shall most car-

good. We are about to pay a wisht to the very battare of the grater. Still good. Others have done

air. These white varors, called in the Icalandic

language "replor," come from hot water fountains, and indicate by their violence the velcanic activity of the soil. The sight of these appeared to justify my apprahension and I was, therefore, all the more surroused and mortifled when my uncle thus addressed me. "You see all this smoke, Harry, my

These were constions worth thinking about, and he down in search of alson without dreaming of cruptions. The more I thought, the more I objected to be reduced to the state of dross and ashes. I

could stand it no longer so I determined at last to submit the whole case to my uncle, in the most adreit manner possible, and under the form of some

I sought him. I laid before him my fears, and then draw back in order to let him sat over him passion at his ease

"I have been thinking about the matter," he said. in the quietest tone in the world What did he mean? Was he at last about to ligten to the voice of reason? Did be think of suspending

his projects? It was obrook too much harminess to be true. I made no remark. I was too anxious not to interrupt him, and so allow him to reflect at his bisure. After some moments he souks sured. "Ever ofnce we were at Stope, my mind has been almost solely occupied with the grave question

consultion as soon as possible and spend a few which you, yourself just submitted to me-for notbact with improdence," "I heartily agree with you, my dear uncle," was my somewhat hopeful rejoinder. "It is now air hundred years since Speifele has snoken, but though now reduced to a state of ottor

ellence, he may speak again. New volcanie countiens are always preceded by perfectly well-known phenomens. I have closely examined the inhabitants of this region: I have execulty studied the sell, and

As I listaned to his positive affirmations, I was

I obeyed mechanically. Leaving the presbytery, the Professor took a road through an occaring in the besultie rock, which led for away from the sea. We were soon in onen country, if we could give such a name to a place all covered with volcans: demailty. The whole land occored ermiled under the weight of excernous stones-of trap, of haselt, of

Year size "Well, as long as you can see them thus, you have nothing to fear from the volcane." "How can that he?"

"He careful to remember this," continued the amouts of vapor redouble their activity-to disapnecessary tempion, seek refure in the interior of of the carth. If, then, the steam remains in its aremal or habitani state, if their energy does not

"But-"Enough, my boy. When science has sent forth her flat-it is only to hear and to oberappointed. My uncle had completely defeated me

had one hope,-that was, when once we were at the bottom of the crater, that it would be impossible in default of a gallery or tunnel, to descend any

I record the whole of the following night with a nightmore on my chest!--and, after unbeard-of miseries and tectures, found myself in the very depths of the surth, from which I was suddenly hunched into planetary space, under the form of an

Next day, the 23d June, Hans calmly awaited se outside the presbetery with his two companions iron-shod stayes, two guns, and two large game a man who never failed to take even the minutest prevautions, had added to our begongs a large skin full of water, as an addition to our gourds. This aranged us water for eight days.

ready. The rector and his bugs wife, or servant-I never know which-stood at the deer to see us usual final hiss of the loslanders. To our supreme autoniohment their added took the shape of a formidable bill, in which they even counted the use of the nartoral house, really and truly the most abortizable and dirty place I ever was in. The worthy counter cheated and robbed us like a Swiss innkcoper, and made no feel, by the sum we had to pay, the splendees of their hospitality. My uncle paid without harvafning. A man who had made up his mind is not the men to hargie over a few miserable rix-

This important matter settled, Hans, gave the aignal for departure, and a few moments later we

CHAPTER XII THE ASCENT OF MOUNT SNEETHES

WE saleson which was the first stage of our experiment, is about the book of a long range. of volcance mountains, of a character different from the system of the island Steelf. One of its peculiariwe started it was impossible to make out the actual

Our party formed quite a procession. We welled in single file, preceded by Hans, who calmir led us by narrow noths where two persons could by no nossibility walk abreast. Conversation was wholly impossible. We had all the more apportunity therefore to reflect, and to admire the awful grandeur of As we advanced, the road become more difficult.

The soil was broken and dangerous. The rocks broke and gave way under our feet, and we had to be scrapulously exceful in order to avoid dansemetimes he would disappear behand born blocks There was a little period of armiety and then there was a shrill whistle, sust to tell us where to look

Occasionally he would take it into his head to up into small heaps, in order that we might not lose the precoution was a good one; though how atterly useless and unnecessary- But I must not anticipate.

Three hours of terrible fatigue, walking incossantly, had only brought us to the foot of the signs to that effect-and a summary kind of heast-

fast was leid out on the lava before us. My uncle. It was nine o'clock in the morning when we were who now was simply Professor Hardwigg, was so easer to alleance, that he boilted his food like a a halt for renose. The Professor was therefore coma good hour. The three leelanders, as tacitum as ing and drinking very quietly and soberly. From this, our first real stare, we began to

sound the alopes of the Szeffels volcano. Its magnufferest anowy night-con, as we began to call it, appeared to me to be close at hand; and vat how mazer long weary hours must clause before we reached its summit. What undreamed-of fatigue

The stress on the mountain side, held together by no sement of soil, bound together by no roots or creating herbs, gave way continually under our a series of small avalanches. In certain places the sides of this stopendous mountain were at an angle and we were compelled to get around there obstudes. so best we could Those who understand Altine elimbing will appreciate our difficulties. Often we

were obliged to help each other along by means of I must say this for my uncit-he stack as close 118

narently investible to fatigue. He had another great ndvantage-the innate sentiment of southrium-for he never elipped or failed in his stere. Looking up every now and then, at the beight of impossible to reach the summet on that side-at

least if the angle of inclination did not speedily Fortunately, after an bour of difficult climbing, ing to an acrobet, we came to a wast field of ice, which completely surrounded the bottom of the cone probably for some such reason as the dwallers in the Cape of Good Hope call their mountain, Table

Mountain, and their anchorage or roads, Vable Bay. Here, to our mutual surprise, we found an actual flight of stone steps, which considerably assisted our secent. This singular flight of stairs was, like of those torrents of stones good up by the eruptions, of which the looksadic name is atmi. If this singular peculiar shape of the flanks of the mountain, it would have sweet into the sea, and formed new islands. Such as it was, it served us admirably. greated, but these remarkable atoms stems, a little

less difficult than those of the Egyptian pyramids, were the one simple natural means by which we About seven in the evening of that day, after having clambered up two thousand of these rough steps, we found ourselves overlooking a kind of spur or projection of the mountain-like a huttrees

leaned for support. The onean law beneath us at a depth of more than three thousand two hundred feet-a grand and mighty spectacle. We had reached the region of eternal snows. The cold was keen, searching and

intense. The wind blew with extraordinary violence. I was utterly exhausted. My werthy much the Professor, saw clearly that my legs refused further service, and that, in fact, was utterly exhausted. Despite his het and feverish impatience, he decided, with a sigh, upon a halt. He called the older-duck hunter to his side. That worthy, however, shock his bead, "Ofventor," was his sole spoken reply.

"It arneam," save my uncle with a wee-begone look, "that we must go higher." He then turned to Hans, and asked him to give

"Je mistour-yes, the mistour," cried one of the

Itelandic guides in a turrified tone. "What does this mysterious word signifu?" I

anxiously inquired. I looked down upon the plain below, and I naw a of sand, of dust, rising to the heavens in the form

The wind was driving it directly towards that side of Sneffels on which we were perched. This oraque will standing up between us and the surprojected a deep shadow on the fanks of the mountain. If this sand-about broke over us, we must all be completely destroyed, crushed in its fearful embraces. This extraordinary physomenon, very common when the wind shakes the glociers, and aweeps over the arid plains, is in the Icelandia tongue called mustowr. Now I cortainly knew nothing of Danish, but I

thoroughly understood that his gustures were meant to harry us. The guide turned rapedly in a direction which would take us to the hack of the crater, all the white ascending slightly. We followed rapidly, despite our excessive fetigue. A quarter of an hour later Hans named to are able on to look back. The wighty whichers of sand was spreading up the slope of the mountain

to the very spot where we had proposed to half Huse stones were caught up, cent into the air, and thrown about an during an ecurtion. We were happily a little out of the direction of the wind. and therefore out of reach of danger. But for the procuption and knowledge of our guide, our disocated bedies, our crushed and broken limbs, would have been east to the wind. like dust from some Hans however did not think it prudent to ness the night on the hare side of the cone. We therefore

continued our journey in a signag direction. The took us at least five hours. The turnings and windings, the no-thoroughfares, the marches and marches, turned that insignificant distance leto at fatigue and exhaustion in my life. I was ready the rarefied air acted painfully upon my lungs. At last, about eleven at night, when I thought I was gasping my last breath, we reached the sum-

mit of Mount Speffels! It was in an awful state of mind, that despite my fatigue, I passed to helid the sun rise at midnight on the very day of its ghastly pale rays cast upon the inic which lay sleeping at our feet, before I descended into the crater which was to shelter us for the night. I no longer wondered at people traveling all the

way from England to Norway, to hehold this magi-

CHAPTER XIII

CR supper was shinn with same that he could sifter which everyhedy did the heat he could UR supper was eaten with ease and rapidity

for hirsself within the hollow of the crater, The bed was hard, the shelter unsatisfactory, the situation painful-lying in the open sir, 5,000 feet did I sleep so well as I did that particular night, I did not even dream. So much for the effects of enectarie which surrolled itself, nancrama-like, at I stood upon the lefty summit of Mount Snoffels' southern peak. Theree I was able to obtain a view of a great part of the joined. The optical delusion, covernor to all fofty beachts, raised the shares of the island, while the central portions appeared dereward. It was by no means too great a flight of

out before me. I could see the deep valleys that greened each other in every direction. I could see precipites looking like sides of wells, lakes that seemed to be changed into ponds, ponds that looked netty brooks. To my right were gluciers upon

otselers, and multiplied peaks, toogsd with light cleads of smoke.

The undulation of the infinite numbers of mountains, whose snowy summits make them look as wards the west, the oceses lay before me in all Mr. majestic grandeur, a continuation as it were, of to distinguish where the land ended and the sea

I soon felt that strange and mysterious requation which is awakened in the mird when looking down without any feeling of nervourness, having forof lefty sphlimity, without thought of the abvises But I was presently brought back to the realities who follood me upon the lefty summit of the peak.

My uncle, turning in a westerly direction, pointed out to me a light cloud of vapor, a kind of hane, with a faint outline of land rising out of the waters. "Greenland?" cried I in reply. "Yes," continued my uncle, who always when explaining snything, spoke as if he were in a Pro-

fessor's chair; "we are not more than thirty-five the great annual break up of the ice takes place, white bears come over to Iceland, carried by the Souther meaner of the from the north. This, however, is a matter of little consequence. We are now on the summit of the great, the transcendent Sneffals and here are its two neaks, north and south,

Hans will tell you the name by which the people of My proje turned to the experturbable guide, who nedded and spake as usual-one word, "Seartarts." My mele looked at me with a propel and triumph-

ant rispee. "A crater," he said, "you hear?" did hear, but I was totally unable to make The crater of Mount Speffols represented an in-

verted core, the gaping orifice apparently half a mile across; the depth, indefinite feet. Conceive what this Asia most have been like when full of

the slope from the summet to the bottom was very gradual, and we were therefore clearly able to get there without much fatigue or difficulty. Involunthought to myself, "when perhaps it is leaded, and will go off at the least shock, is the act of a mad-

feet in circumference, by which it will be seen that

But there was no longer any opportunity for me to hesitate. Hans, with a perfectly calm and inadventureus little band. I followed without utter-

ing a syllable. I felt like the lamb led to the slaughter. In order to render the descent less difficult, Hans teck his way down the interior of the cone in rather a signer fashion, making, so the callers say, long ones to the west. It was necessary to walk through the midst of ereptive recks, some of which, thundering clampe to the bottom of the above. These

Many portions of the cone consisted of inferior glaciers. Hans, whenever he met with one of these obstacles advanced with a great show of pressution, to discover froures and layers of does soft snow. enough to sitp, he would be supported by his compartiess. This connecting link was doubtless a prudent precaution, but not by any means unattended

Nevertheless, despite all the manifold difficulties of the depoint, along slopes with which our guide was wholly unacquainted, we made considerable progress without szeident. One of our groat parcels By mid-day we were at the cod of our increase. I looked susseres, and saw only the unper orifice of the come, which served as a circular frame to a very small portion of the sky-a portion which seemed

to me sineularly beautiful. Should I ever again gene on that lovely sunlit sky The only exception to this extraordinary hand-

scars, was the Peak of Scarteris, which seemed loot The hettern of the ergier was composed of three seperate shafts, through which, during periods of

eruption, when Speffels was in action, the great poisonous vanors. Each of these chimners or shafts from them as possible, not even venturing to take

As for the Professor, after a rapid examination

phrases in all sorts of isaguages. Hans, the guide,

and his humbler companions seated themselves on come peles of lava and looked attently on. They Suddenly the Professor attored a wild, uncarthly

was falling headleng into one of the yawning gulfaout to their widest extent, his legs atretched spart, of Pluto. His attitude and mion were that of a man atterly stupefied. But his stupefaction was speedily changed to the wildest juy. "Harry! Harry! come

Unable to understand what he meant, I turned to show has commands. Neither Haus, nor the other

"Look!" said the Professor, in something of the manner of the French general pointing out the pyramids to his army. And fully partaking his strowfaction, if not his joy, I read on the eastern side of the huge block of stone, the same characters, half eaten away by the correctve action of time,

the name, to me a thousand times accuraed-1111 417114447 "Arne Saknussem!" orled my uncle, "now, unbeliever, do you begin to have faith?" It was totally impossible for me to snower a

single word. I went back to my pole of lave, in a state of allent awe. The evidence was unanswerable, overwhelming! In a few moments, however, my thoughts were far away, back in my German bome, with Gretchen

of my cousin's smiles, for one of the ancient demestic's omeietten, and for my own feather bed! from between my hands, there remained at the butteen of the crater only myrelf, my untle and Hans, yow descending the exterior slopes of Mount Spef-

tale on their way to Stoni. How heartily did I wish myself with them! Here slout transcraffly at the foot of a rock in a kind of roll of lava, where he had made himself a rearb and ready bed. My uncle was walking about care. I had no desire, neither had I the strength,

to move from my recumbent position. Taking exsempolency, during which I seemed both to hear mountain. In this way we passed our first night in Next morning, a gray, cloudy, heavy sky hung

tiles a funeral-nall over the summit of the volcanic

I fully understood the reason, and again a glimpse explain the cause. Of the three openings which victured beneath our steps, only one could have been

upon it, yout touching its mouth in the last days of the month of June. We were, in fact, to consider the point peak as the stylus of an immense sun-diel, the abadow of which pointed on one given day. The the inexorable figurer of fats, to the vawn-Now, an often hangers in these regions, should the sun fail to burst through the clouds, there can be no shadow. Consequently, no chance of descovering to reit off our vorzes of discovery for another year. when there would certainly be one person fewer in

followed by the adventurous Sakussesen, According

It would be atterly impossible to deplot the imand not the faintest outline of a shadow could be seen at the bettom of the creter. Hare, the guide, never moved from his place. He must have been curious to know what we were about, if indeed he could believe we were about anything. As for my uncle, he never addressed a word to me. He was

On the 26th, no change for the better. A mixwhich he retired like Diogenes into his tub. I took a realistons delight in watching the thousand little carrying with them at times a stream of stones into

My uncle was almost frantie; to be sure it was spooch to make even a potient man anery. He had But if the heavens and the elements are capable of cousing us much pain and sterrow, there are two

sides to a medal. And there was reserved for Professur Hardwigg a brilliant and sudden surreise which was to compensate him for all his sufferings. Next day the sky was still overcast, but on Sunday. the 25th, the last day but one of the month, with a sudden change of wind and a new moon there ing rays to the very bottom of the crater. Ruch billock, every rock, every steps, every

asperity of the sail had its share of the luminous effolismon and its shadow fell heavily on the soil Among others, to his meson delight, the shadow of Scartaris was marked and clear, and moved alouly We made record with it in a state of mental

ecstasy. At twelve o'clock exactly, when the sun shodow fell upon the edge of the central pit! "Here it is," exampl the Professor in an ageny

of joy, "here it is-we have found it. Forward, my I looked curiously at Hann to see what reply he

A TRIP TO THE CENTER OF THE PARTH

would make to this terrific appropriates. "Forut." said the guide tranquily. "Forward it is," answered my uncle, who was When we were quite ready, our watches indicated thirteen minutes must one!

CHAPTER XIV

THE BIAL JOURNEY COMMENCES UR real fourney commenced. Hitherto our that was all. Now, unknown and fearful dangers. I had not as yet ventured to take a glimpss down

gious enterprise. But I was ashamed to show more four than the elder-duck hunter. Hans seemed to accept the difficulties of the journey so tranquilly, with such calm indifference, with such perfect rackpear loss of a man than he! Had I been alone with

argued the point fully; but in the presence of the guide I hold my tongue. I gave one mamont to the to the mouth of the central shaft It measured about a hundred feet in dismeter, I leaned over a rock which stood on its edge, and beloed down. My hair stood on end, my teeth shattered, my limbs trambfed, I seemed utterly to lose

my center of gravity, while my head was in a sort of whirl, like that of a drunken man. There is nothing more powerful than this attraction towards an shows. I was shout to full headlong into the garing well, when I was drawn back by a firm and powerful hand. It was that of Hans. I had not taken in the art of looking down from lofty eminences

Heavener few on the religion were during which I raced down this tremendous and even wondrous shaft. I had a sufficient offmuse of it to give me some idea of its physical conformation. Its sides, which are almost as perpendicular as those of a

It was a sert of wild and savare staircase, without honnister or funcs. A rope fastaned above, near the surface, would certainly support our weight and enable us to reach the hottom, but how, when we had arrived at its nethermost depth, were we to loosen it above? This was, I thought, a question

of some importance My uncle, however, was, as usual prepered with obvioting this difficulty. He unrolled a cord about as thick as my thumb, and at least four hundred feet in langth. He allowed about half of it to on down the pit and catch in a hitch over a great

black of lava which stood on the edm of the "Attention-look out." repeated my uncleprecipice. This done, he threw the second half Ruch of us could you descend by establish the

two cords in one hand. When apout two hundred feet below, all the explorer had to do was to let go one end and null away at the other, when the cord would come falling at his feet. In order to go down farther, all that was necessary was to contipus the same operation. Going down thus appeared to me easy enough, it was the coming up that now occupied my thoughts "Now," said my unals, as soon as he had com-

pleted this important preparation, "let us see about My worthy and incentous upole did not amount to consider that we came under that denomination, "Hens," he continued, "you will take charge of the tools and some of the provisions; you, Harry, must the estables, and with the more delicate instru-

"But," I exclaimed, "our clothes, this mass of cord and ladders—who will undertake to carry them

"They will on down of themselves." "And how so?" I saked. "You shall see." My uncle was not fond of held

measures, nor did he like enything in the way of besitation. Giving his orders to Hans, he had the bundle; and the pecket firmly and solidly fastened. was simply pitched over the edge of the cult. I heard the meaning of the anidetic displaced ate and the noise of falling stenes. My uncle leaning with a perfectly salf-catisfied air, and did not rive until it had completely disappeared from sight. "Now then," he cried, "It is our turn," I put it in good faith to any man of common segge-was it possible to hear this correctic ery

without a shudder? The Professor festered his core of instruments on his back. Hans took charge of the tools. I of the arms. The descent they commanced in the following order: Hous went first, my uncle followed, and I went leat. Our progress was the fall of pieces of rock, which breaking from the ingred sides, fell with a roor into the deaths below I allowed myself to slide, so to speak, holding franticelly on the fouble cord with one hand and assistance of my iron-shod pole. One idea was impressed upon my brain all the time. I feared that

agility and doing miracles in the way of feats of dexterity and strength upon the projecting sholves The guids went first as I have said, and when syllabic way of speaking, "Gif-akt---"

In about half an hour we reached a kind of

While we were seated on this extraordinary banch

visible. Were we then, come direct to the interior

The performance with the cord recommenced, and a practice of an hour later we had descended as-

I have very strong doubts if the most determined geologist would, during that descent here atudied

him. I did not trouble my head much about the matter; whether we were among the combustible carbon Sflurlan, or primitive soils, I neither knew

Not so the inveterate Professor. He must have taken notes all the way down, for, at one of our halts, he began a brief lecture. "The farther we the result. The disposition of these volcoms strata. absolutely confirms the theories of Sir Humshrey Dasy. We are still within the region of the primardist sell, the soil in which took place the chemical exidation of metals becoming inflamed by coming in

contact with air and water. I at once rewret the old and now for ever exploded theory of a central fire. At all events, we shall seen know the truth." Such was the conclusion to which he came was very far from being in humor to discuss the was taken for consent; and still we continued to

At the emiration of three hours, we were to all appearance, as far off as ever from the bottom of the well. When I looked unwards, however, I could see that the upper orides was every minute decreasing in size. The sides of the shuft were petting closer and closer together, we were anproaching the regions of eternal night! And still we continued to descend! At length, I noticed that when pieces of stone were detached

from the sides of this stupendous precipice, they were swallowed up with less noise than before. The the bottom of the abysa! As I had been very exceful to keep account of all the changes of cord which took place, I was able to

well as the time it had taken. We had shifted the rope twenty-eight times, each operation taking a To this had to be added twenty-eight pauses; in all now, therefore, about eleven o'clock at night It does not require great knowledge of arithmetic

makes five thousand six hundred feet in all (more While I was making this mental calculation a

I checked myself wary suddenly, just at the

"No, you stored fellow! but we have reached the "And I suppose there is no farther progress to be "Oh, yes, I can dimly see a sort of tunnel, which turns off obtiqueby to the right. At all events, we must see about that to-morrow. Let us sup now, and seek slumber as bust we may.

the worthy Professor in a satisfied tone.

made?" I honefully exclaimed.

I thought it ture, but made no observations on that point. I was fairly launched on a desperate

It was not quite dark even now, the light filtering down in a most extraordinary manner. We opened the provision bag, ate a fragel supper, and each did his best to find a bed smid the pile of stopes, dirt. and lave which had necessalated for ages at the rile of ropes, ladders, and clothes which we had

thrown down; and upon them I stretched recould After such a day's labor, my rough hed seemed as soft as down! For a while I lay in a sort of pleasant trance. Presently, after bying culetly for some minutes, I oregod my even and looked property. As I did so made out a brilliant little dot, at the extremity of this long, gigantic telescore,

It was a star without scintillating rays. According to my calculation, it must be in the constellation of the Little Bear. After this little bit of astronomical recreation, I dropped into a sound

CHAPTER XV WE CONTINUE OUR DESCRIPT

T eight c'clock the next morning, a faint kind of dawn awoke us. The thousand and one The prisons of the lave collected the light as it passed and brought it to us like a shower of marks. We were able with ease to see objects around us. "Well, Harry, my boy," gried the delighted Profersor, rubbing his hands together, "what say you new? Did you ever pass a more tranquil night in our house in the Koulg Stresse? No denfening sounds of eart-wheels, no ories of howkers, no bad

language from bootmen or watermen?" "Well, uncle, we are quiet at the hottom of this well-but to me there is something terrible in this calm." "Why," said the Professor, both, "one woold see you were already beginning to be afruid. How will you out on presently? Do you know that as yet, we

"What can you mean, sir?" was my bewildered "I mean to say that we have only just reached

"Quite sure. Consult the barometer."

was taking place, had storped precisely at twenty-"we have as yet only to enders the pressure of manuscreter." The harceneter, its fact, would become useless as soon as the weight of the air was greater "But," said I, "is it not very much to be feared

that this ever-increasing pressure may not in the end turn out very painful and inconvenient?"
"No," said be, "We shall descend very slowly, and our lunes will be gradually accustomed to becathe have gone so high as to be nearly without sir at all -why, then, should no not accustors ourselves to breathe when we have, may a little too much of it? For myself, I am certain I shall prefer it. Let us

not lose a moment. Where is the packet which preceded up in our descent?" I smillingly pointed it out to my much. Hans had not seen it, and believed it caught accrowhere above

us; "httpp:" as he phresed it.
"Now," said my uncle, "let us breakfast, and break fast like people who have a long day's work Bispuit and dried ment, washed down by some

finished, my uncle took from his necket a nots-book He had already placed his instruments in order, and this is what be wrote;-Monday, July 1st. Chronometer, Sh. 17m. morning, Barometer, 29

This last observation referred to the obscure galkey, and was indicated to us by the company. thusiastic tone of voice, "we are truly about to take our first aten into the Interior of the Earth; once world. You may consider, therefore, that at this As my uncle made this remark, he took in one hand the Rubmkorf cell apparatus, which hung

around his neck, and with the other he not the electric current in communication with the filament that dark and gloomy tunnel! The effect was Hans, who carried the second apparatus, had it put into operation too. This ingenious application

move slong by the light of an artificial day, smid even the flow of the most inflammable and com-"Farmand!" oried my track. Ruch took on his burden. Hans going first, my uncle following, I going third, we entered the somber gallery! Just as we were about to engulf ourselves in this dismal passage, I lifted up my head, and through the tube-

like shaft I saw that lookend sky I was never to see earth in 1229, had forced itself a nessage through and brilliant coating. The electric light added very greatly to the brilliancy of the effect. The great difficulty of our journey now began. How were we inclined plane? Happily some cracks, abeneures of the soil, and other progularities, served the piace heavy luggage to alip on before us, at the end of a But that which served as steps under our feet,

to prevent curselves from slipping down the stoonly-

became in other places stallartices. The lava, very with limpid drops of natural place suspended to the beneath there. One would have fancied that the gond of remance were illuminating their underground paleces to receive the some of rese. "Magnificent! Glorious!" I cried in a moment of

involuntary enthusiasm, "what a spectacle, uncled Do you not admire these variegated shades of lava. which run through a whole series of colors, frere reddish brown to pele yellow-by the most inaguable degrees? And those crystels, they amear "You are beginning to see the charms of travel. Master Harry," crood my unels, "Wait a bit, until we

advance farther. What we have as yet discovered is pothing-cowards, my boy, onwards!" It would have been a far more correct and anpropriate expression, had he said, "let us alide," we were going down an inclined plane with perfect saas. The corresponding that we were received in a south-easterly direction. The flow of lava had

power turned to the right or the left. It had the in-Nevertheless, to my surrelse, we found no perceptible increase in heat. This proved the theories of Humparey Davy to be founded on truth, and more than once I found myself examining the thermy densiture it only marked 54 degrees Fahranheit.

I had every reason to believe from this that our descent was far more horizontal than vertical. As for discovering the exact depth to which we had attained, nothing could be easter. The Professor so he advanced, measured the angles of deviation and inclination; but he kept the result of his observa-About eight o'clock in the evening, my uncle pave the signal for the night's rest. Hans seated birtself on the ground. The ismps were kung to fissures in

the lava rock. We were now in a large cavern where What could be the cause of this-to what atof electricity to peractical purposes enabled us to case just then. Fatigue and bunger made me incapable of resaming. An almost unceasing murch of twelve bours had been kept up not without great exhaustion. I was really and truly worn out and delighted enough I was to hear the word "Halt." Hans fald out some provisions on a lump of lava, and we such auroed with keen relish. One thing, however, caused us great uneasiness-our water reserve was already half enhausted. My unclo had full hitherto we had completely failed in doing so. I ecold not help calling my unale's attention to the circumstance, "And are you surprised at this total

absence of aprings?" he said (Continued on page 135)

TESMERIC REVELATION By Edgar Allan Poe

of will, can so im-

those of death, or

dition within our commission; that, while in this effort, and then fuebly, the external organa of sense.

wond the accou of the physical organo; that, more-

era so needless a demonstration to-loy. My nurnose at present

between a sleep aon in cuestion (Mr. Van Kleic).

and the usual acute exultation of the magneric percenvened. For many months he had der confirmed abthists, the more manipulations; and Wednesday, the fifwas summoned to

> The invalid was auffering with

culty, having all the ordinary symptoms of esthrafrom the application of mustard to the nervous centres, but to-night this had been attempted in

ful smile, and although evidently to much bodily

tally, quite at some "I sent for you to-night," by chal impressions which, of late, you how segptical I have hitherto there has always existed, as if been denying, a vague half-senti-

sulted, inteed, in leaving me

MESMERIC REVELATION

shipy Cousin. I studied bim in his own works so well on in those of the Kurquess and American sedies. The Charles Elscool of Mr. Brownsen, for example, was placed in my hands. I read it with perofused attention. Throughout I found it legical, lot the pactition which were nearely logical were undepthy the initial arguments of the disbellering here of the book. In his comming up it assumed ovident to me that the reasoner had gut even succeeded in convincing himself. His ord his discussion of the conversation of the convers

believing here of the book. In his summing up it assumed widen to not that the reason had give even succeeded in convincing humanit. His such had pitality forgotten his beginning, like the government of Trincols. In sheet, I was not large in permetted that the summer of the summer of the summer of the summer had been been supported by the more shalmed on leave to be given the summer of the summer had been supported by the more shalmed as the summer of the summ

of his own immerbility, he will never be so onvised by the more abstructions which have been to long the fathlies of the meralists of England, of France, and of Garmany, Attentions may amost and exercise, but take no held on his mind. Here spen cettle, it shout philosophy, if any permadel, will always for whit out of points to be deepen qualities as there. The will may assert-the soul—the intellest, more. "I region, thou, that I only half sub, and never "I region, though the long in the sub particular the and held."

"I repeat, then, that I only half still, and nower intuleshally believed. But latticely there has been a certain despening of the feeling, until It has cennomarily to resemble the sourcessence of resear, that I find it difficult to distinguish between the two. I are enabled, too, plainly to trees effect to the measured influence. I cannot better capillar the manifest han by the hypothesis that the mo-

meric confinition combine me bo perceive a train or ratorization which, in my absorbal estimators, convinous, but which, in full accordance with the momeric phatomann, does set around, surepit through muric phatomann, does are around, around the order ing, the reasoning and its constantion—the cashs and its effect—me present tagether. In my natural state, the cause vanishing, the effect only, and perhaps only per-litally, remains.

maps only partially, remains.

"These considerations have led me to think that
some good results might ensue from a series of
will-directed questions propounded to me while
momentaed. You have often observed the profound
siff-cognitions observed by the step-warker—the
extensive knowledge be displays upon all points rehings to the messens's condition their, and from

this self-cognitions may be deduced hints for the proper conduct of a catechism."

I consented, of course, to make this expariment, A few passes three Mr. Van Kirk into the momente sloop. His breathing became immediately more

slep. His breathing became immediately more casy, and he seemed to suffer no physical unaudness. The following conversation than ensued:—V. in the dialogue representing the patient, and P. moself.

P. Are you asleep?
V. Yes-no; I would rather sleep more soundly.
P. [after a few store passes.] Do you sleep
now?
V. V.

P. How do you think your present illness will result?

V. [After a long heritation and speaking as if solid (fort.) I must die.

ith dfort.] I must die.
P. Does the idea of death afflict yeu?
P. (Very quichly.] No-ma!
P. Are you pleased with the prospect?
V. If I ware awais. I should like to die, but now

Kirk.

V. I am willing to do so, but it requires more
effort than I feel able to make. You do not question
me properly.

P. What then shall I sake?

Yes over small rank?
 Yes oversit begin at the beginning.
 P. The beginning? but where is the beginning?
 You know that the beginning is God. [This was said in a loss, factuating tone, and unth every sign of the most represent exception.

it is no matter. The mesmeric condition is so near

P. What thin is Gol?
V. [Hesitating for many minutes.] I cannot tell.
P. is not God spirit?
V. While I was awake, I knew what you meant by "eprir," but now it seems only a wors—such for instance as trath, beauty—a quality, I mean.

resume as truth beinty—a quality, I meen.

P. Is not God immaterial?

V. There is no immaterially—it is a mere word
That which is not matter, as not at all—orders qualities are things.

thes are things.

P. Is God, then, material?

V. No. [This reply startled me very much.]

P. What then is he?

V. Iddire a loss some and multerinois.] I see

P. What then is no?
V. [After a long peace and mutteringly.] I see—but it is a thing difficult to tell. [Another long peace.] He is not sylvi!, for be exists. Nor is he master, as won understood it. But there are oradizator.

flows of matter of which man known activing the grosses incelling the face, the firm purvading the grosses. The atmosphere, for assumple, larged the declette principle, while the electric principle genmeates the atmosphere. These graduators of matter increase in rarty of finences, until we service as a matter experienced—webout particles—analysimatics, and the service of the proposed of the matter, and only premates all things but imports all delines—and thus to all things with front all delines—and thus to all things with finest all

matter is God. What men attempt to embedy in the word "biogath," is this matter in motion. P. The metaphysician maintain that all action is reducible to motion and thinking, and that the latter is the origin of the former. P. Yes, and I new see the contristion of thes. Motion is the notice of wind—not of diskeling. The ungarticled motion, or God, in consecure, as the conjugation motion, or God, in consecure, as the

unparticled matter, or God, in quisseners, a (as nearly as we can conselve) it what more call mind. And the power of self-environt (equivalent to effect to branch voillion) is, in the unparticled matter, the result of its unity and consupressions; see that the contract of the unity and consupressions; see the contract of the unparticled matter, at it, metion by two, or quality, satisfaing within steel, it, is thinking. But they are give me no mere precise, idea of what

P. Can you give me no more precise idea of what you turn the suparticled matter?
V. The matters of which man is complaint, escaps the senses in gradation. We have, for example, a metal, a piece of word, a drop of water, the steme-turn, a ran, calorie, otherwist, the locationary.

other. Now we call all those things matter, and enthroe all matter in one general definition; but in arcts of this, there can be no two ideas more easesisally diriner than that which we attach to a matal,

tially distinct than that which we attach to a metal and that which we attach to the luminiferons either. When we reach the latter, we feel an almost irreaintible indination to class it with spirit, or with of an atom, as semething passessing, in infinite minuteness, solidity, pulpability, weight. Destroy the idea of the atomic constitution, and we should no longer be able to regard the other as an entity, or at least as matter. For want of a better word we might term it spirit. Take, now, a step beyond more rure than the other, as this other is more rare all the school dogmas) at a unique mass-an un-

mibility. The only consideration which restrains us

particled matter. For sithough we may admit intude of littleness in the spaces between them is an absurdity. There will be a point-there will be a degree of rarity, at which, if the atoms are suffelently numerous, the interspaces must vanish, and the many absolutely chalesce. But the consideration of the atomic constitution being now taken away, it is as fully motter as before. The truth is, it is that we have formed its conception, we have marely decrived our understanding by the consideration of

P. There seems to me an incorrespondable ablecttion to the idea of absolute confrorence; -- and that is the very slight resistance experienced by the -a resistance new accertained, it is true, to exist in some dorren, but which is, nevertheless, so slight even of Newton. We know that the registrates of solute conlescence is absolute density. Where there are no interspaces, there can be no vielding. An ether, absolutely dense, would put an infinitely more effectual stop to the progress of a star than would

an ether of adament or of iron V. Your objection is answered with an ease which shillity.-As regards the progress of the star, it can make no difference whether the star passes through astronomical error more unaccountable than that which reconciles the known retardation of the comets with the iden of their passage through an ether for, however rare this ether be supposed, it far briefer period thun has been admitted by those astronomers who have endoavered to slur ever a

other hand, about that which might be expected from the friction of the other in the instantaneous passage through the orb. In the one case, the re-Steelf-in the other it is endlessly accumulative,

P. But in all this-in this identification of more speed than mind? But you forget that the matter

schools at the same time. God, with all the rowers. P. You assert, then, that the unperticled matter, V. In general, this motion is the universal thoughts of the universal mind. This thought creater. All created things are but the thousands P. You say, "in general,"

or "spirit" of the schools, so far as regards its high capacities, said is moreover, the "matter" of these

V. Yes. The universal mind is God. For new individualities easily is necessary. P. But you now speak of "mand" and "matter" . Yes-to avoid confusion, When I say "mind." I mean the unparticled or ultimate matter; by "mat-

P. You were saving that "for new individualities matter is necessary." V. Yes; for mind, existing unincorporate, is merely God. To create individual, thinking beings. it was necessary to incornate portions of the divine mind. Thus man is individualized. Divested ed

particled matter in the thought of man, so the motion of the whole is that of God. P. You say that divested of the body man will V. LAfter much hasitation.] I could not have

said this; It is an abourdit P. [Referring to our notes.] You did say "that divented of corporate investiture man were God. V. And this is true. Man thus diverted small he be thus divested-at least never sold be-else we -e purposeless and futile action. Man is a crea-P. I do not comprehend. You say that man will

V. I say that he will never be bediless. V. There are two brillian-the redimental and the

complete, corresponding with the two conditions of Our future is perfected, ultimate, immortal. The P. But of the worm's metamorphosis we are nal-

V. We, certainly-but not the worm. The matter the ken of the organs of that hody; or, more distinctly, our rudimental organs are adapted to the matter of which is formed the radimental body; but not to that of which the ultimate is composed. The ultimate body thus escores our rudimental sonses, and we perceive only the shell which falls, in decaying, from the inner form; not that inner is appreciable by those who have stready acquired

P. You have often said that the meameric state very nearly resembles death. How is this? V. When I say that it recembles death, I mean that it resembles the ultimate life; for when I am abeyance, and I perceive external things directly, without organs, through a medium which I shall employ in the ultimate, unorganized life,

V. Yes; organs are contrivances by which the individual is brought into sensible relation with particular classes and forms of matter, to the exclusion

are adapted to his rudomental condition, and to that only; his ultimate condition, being unormanised, is of animited consprehensions in all points but one -the nature of the volition of God-that is to say, it to be entire brain. This it is set; but a concention of this asture will hring you near a compreheneton of what it as. A luminous body imports vibration to the luminiferous other. The vibrations communicate similar ones to the outic nerva. The perve convers similar ones to the brain; the brain. also, similar ones to the unparticled matter which permeates it. The motion of this latter is thought. of which percention is the first madelatine. This is the meds by which the mind of the radimental external world is, to the rudmental life, limited through the idiosynersay of its organs. But in the ultimate, unormanized life, the external world reaches the whole body (which to of a substance having affinity to brain, as I have said) with no other intervention than that of an infinitely report

other than even the luminiferous; and to this either it. It is to the absence of idjosyncratic organs, therefore, that we must attribute the nearly unlies. ited perception of the ultimate life. To redimental P. You sneek of rudimental "belora." Are there

other reducental thinking beings than man? V. The multitudinous conglomeration of rare matter into pebula, planets, suns, and other hodies, which are neither nebule, cone, nor planete, is for the sole purpose of supplying pababase for the idiobeings. But for the processity of the redirected prior to the ultimate life, there would have been no bodies such as these. Each of these is terested by a distinct variety of organic, rudimental, thinking creature. In all, the organs vary with the fentures of the place tenanted. At death or restamorphosis, these creatures, enjoying the phimate the one act all things and pass everywhere by mere welltion:-- indwelling, not the stare, which to us sects the sole palpabilities, and for the accommods-

-blotting them out as non-entities from the percen-P. You say that "but for the necessity of the

radimental life, there would have been no stars. V. In the morganic life, so well as in the inorganic matter generally, there is nothing to impede P. But again-why need this impediment have heen produced?

V. The result of low inviolate is perfectionright-negative harminess. The result of law rice lete is imperfection, wrong, positive pain. Through the impeliments afferded by the number, comcertain extent, practicable. Thus now, which in the

P. And to what good end is pain thus rendered possible?

V. All things are either good or had by comparison. A sufficient analysis will show that pleasure, in all cases, is but the contrast of main. Postfive pleasure is a mere idea. To be happy at any one point we must have suffered at the same. Naverto suffer would have been never to have been blessed. But it has been shown that in the ingrgame life, pain carnot be; thus the pecessity for

the organic. The pain of the primitive life of Rusch P. Still there is one of your expressions which I find it impossible to comprehend-"the truly sub-V. This, probably, in because you have no suffi-

ciently seneric conception of the term "substance" itself. We must not regard it as a quality, but as a sentiment .- It is the perception, in thinking zation. There are many things on the Earth which not be brought to approxime as existing at all. But. to the inorgance beings-to the angele-the whole of the unparticled matter is substance; that is to say, the whole of what we term "scood" is to them the trucet substantiality-the stars, mountime, through what we consider their materiality, escening the argelic sense, just in proportion as the asparticled matter, through what we consider its

As the elect-waker propounced these letter words in a feeble tone, I observed on his countersuce a singular expression, which somewhat playmed me. all his features, he fell back men his reliew and expired. I noticed that in less than a minute afterward his corpse had all the etern rigidity of stone His brow was of the coldress of ice. Thus ordiparily, should it have appeared, only after long pressure from Agrael's hand. Had the alconorder. indeed, during the latter portion of his discourse been addressing me from out the region of the Absdows?

THE END

The CRYSTAL EGG



was macribed. The contents of its window were currously variegated. They comprised some elebeads and wespetts, a box of glass eyes, two skulls morious (one holding a lamp), an old-fashioned tackle, and an extraordinary fifrty, empty glass

WEEKE was, until a year ago, a little and very gramy-looking thep near Seven Diale, over which, in weather-worn

yellow lettering, the name of "C. Core, Naturalist and Dealer in Antiprition."

THE CRYSTAL EGG

If a civilization on mother world were assertime to com-

fish-tank. There was also, at the moment the story of an egy and brilliantly polished. And at that two people, who stood outside the window, were looking, one of them a tall, thin clergyman, the other a block-bearded young man of dusky com-

plexion and unobtrusive costume. The dusky young While they were there, Mr. Cave came into his shen, his board still wagging with the bread and botter of his ton. When he saw these wen and the object of their regard, his countenance fell. He

glanced guiltily over his shoulder, and noftly shut and possible watery blue eyes; his hair was a dirty over, and he wore a shabby blue frock-cost, an antient silk hat, and carpet allippers very much

showed his teeth in an agreeable smile. Mr. Cave ned when they came into

The clergyman, without Mr. Cave glosced norvously towards the door leading into the perior. Mr. Cave, that the price

article-and an attempt at bargaining coused. Mr.

Cave stepped to the shopfoor, and held it sport, "Five pounds is my price," he said, as though he wished to save himself the trouble of unprofitable discussion. As he did so, the upper portion of a woman's face appeared above the blind in the glass upper namel of the door leading into the parlor,

and stored corionaly at the two costomers, "Five nounds is my price," said Mr. Cave, with a quiver The swarthy young man had so far remained a spectator watching Cave knumly. Now he spoke, "Give him five pounds," he said. The elergyman glanced at him to see if he were in carnet, and, when he looked at Mr. Cave again, he saw that that before he began to harvoin. Mr. Case became able purchaser of it had already appeared. The two, treating this as an attempt to raise the price still further, made as if they would leave the shop. But at this point the parler door opened, and She was a course-festured, consident woman, walked heavily, and her face was flushed. "That good price for it. I can't think what you're about,

the latter's face was white. "It's a let of money,"

said the clargyman, and diving into his pocket. began ecuating his resources. He had little more

than thirty shillings, and he appealed to his companion, with whom he seemed to be on terms

of considerable intimacy. This wave Mr. Core an

opportunity of collecting his thoughts, and he began to explain in an agitated manner that the crystal

sale. His two sustemers were naturally supprised

at this, and increived why he had not thought of

Cave, not to take the sentleman's offer!" Mr. Cave, greatly perturbed by the interruption, looked angrify at her over the rims of his spectacles, tercation began. The two costomers watched the ally assisting Mrs. Cave with suggestions. Mr.

possible story of an inquiry for the revotal that meening, and his agita-HIRR is a tremendous story by one of the creature licwho ended this curious controversy. He proposed that they should call our throughout that it may, 5,000 years from note be quite again in the course of two

> chance, "And then we grant insist," said the cler-gyman. "Five pounds." Mrs. Care took it on herhusband, explaining that

alleged enquirer a fair

We recommend this amoring story to you. odd," and an the two contomorn left, the couple quesion of the incident in all its bearings.

Mrs. Cave talked to her husband with singular direciness. The poor little man, quivering with emotion, muddled himself between his stories, maintomer in view, and on the other asserting that the greeful was hopestly worth ten guiness. "Why did

you sak five pounds?" said his wife. "Do let me

manage my husiness my own way?" said Mr. Cave. Mr. Cave had living with him a step-daughter and a step-son, and at supper that night the transaction was radiscussed. None of them had a very high opinion of Mr. Cave's business meth-

AMAZING STORIES

eds, and this action seemed a calminating felbr-"The crystal! Where did you hide the crystal?" "It's my opinion he's refused that crystal be-At that Mr. Cave, apparently much surprised, rushed to the window. "Isn't it bere?" he said. fore," said the sten-son, a loose-limbed lout of "Great Heavenat what has become of it?" "But Fine Posesdaf" said the step-daughter, an Just then, Mr. Cave's step-son re-entered the

argumentative young woman of six-and-twenty. Mr. Cave's answers were wretched; he could antr mumble weak assertions that he know his own business best. They drove him from his half-eaten supper into the shop, to close it for the his spectacles. "Why had he left the crystal in

the window so long? The folly of it!" That was see no way of evading the sale. After supper his step-daughter and step-son americand themselves up and went out. His wife

retired unstairs and over a little sugar and lemon and so forth, in hot water, reflected upon the businest aspects of the crystal. Mr. Cave went into the shop, and stayed there until late, catensibly to make ornamental reckeries for gold-fish globes but really later. The next day Mrs. Cave found that the greated had been removed from the window, and was lying helded some second-hand books on angling. She replaced it in a conspicuous position,

hardsche duinchmol ber from debate. Mr. Cava was always disinglified. The day passed disagreeably. Mr. Cave was, if anything, more absentminded than usual and mecomosohy brritable withal. In the afternoon, when his wife was taking the window again.

The next day Mr. Care had to deliver a concrystal and the methods of expenditure suitable to a windfull of five nounds. She had already devised dress of group silk for herself and a trip to Richeveryingtion coach, who came to commisin of the vious day. Mrs. Cave did not approve of this particular hranch of Mr. Cave's business, and the centlemen, who had called in a somewhat aggressive entirely civil so far as he was concouned. Mrs.

for the eight of the crystal was an assurance of five pounds and of her dreams. What was her She went to the place behind the locker on the counter, where she had discovered it the day hefore. It was not there; and she immediately begun

When Mr. Cave returned from his husiness about the dog-fish, about a quarter to two in the aftermeterial. Her face come up hat and angry over shop from the unser room-be had come home phoming freely. He was apprenticed to a secondhand furniture dealer down the read, but he had his meals of home and he was naturally amound to find no dinner ready. Rot, when he heard of the loss of the crystal he forgot his meal, and his anger was diverted from his mother to his step-father. Their first idea, of course, was that he had hidden it. But

Mr. Cave stoutly denied all knowledge of its fate -- freely offering his bedshilled affidavit in the motter-and at last was worked up to the point of accusing, first, his wife and then his ofgnoon of having taken it with a view to a private sale. So began an exceedingly arrimomous and amotional discussion, which ended for Mrs. Cave in a peculiar amosk, and caused the step-om to be half-an-hour late at the furniture establishment in the afternoon. Mr. Cave took refuge from his wife's emotions in

In the evening the topic was resumed, with less passion and in a more judicial spirit, under the prysidency of the step-daughter. The supper nessed unhappily and ended in a pounful scene, Mr. Cave gave way at last to extreme exasporation, and went out hanging the front door violently. The rest of the family, having discussed him with the freefrom gurret to cellar, hoping to light upon the

The next day the two customers called again, It transpired that no one could imagine all that she had stood from Cave at various times in her merried pilgrimage. . . . She also gave a garbled account of the disercearance. The clargyman and the Oriental Incohed allently at one another, and said it was extraordinary. As Mrs. Cave seemed dispersed to give them the complete history of her life they made to leave the shop. Thereupon Mrs. Cove, still elinging to hope, asked for the clergy-

mon's address, so that, if she could get anything out of Cave, she might communicate it. The address was duly given, but apparently was afterwards wiele'd. Mrs. Care can remember nothing about it. By the evening of that day, the Caves seem to Caye's eye then naturally turned to the window; have enhausted their emotions, and Mr. Cave, who had been out in the afternoon, supped in a gloomy isolation that contracted pleasantly with the imreceived controversy of the previous days. For

some time matters were very hadly strained in the Care household, but seither crystal nor customer Now, without mincing the matter, we must admit that Mr. Cave was a ligr. He knew perfectly well where the crystal was. It was in the rooms of Mr.

Jacoby Ware, Assistant Demonstrator at St. Catherine's Hospital, Westbourne Street. It stood on the aidebeard partially covered by a black velvet cloth, builde a decenter of American whisky. It is from Mr. Wace, indeed, that the particulars upon which this narrative is based were derived. Cave had taken the those off to the homital hidden in the dog-fish sack, and there had pressed the young investigator to keep it for him, Mr. Wace was a neculiar. He had a taste for singular characters, and he had more than once invited the old man to arreles and drink in his rooms, and to unfold his rather arousing visws of life in general and of his wife in perticular. Mr. Wass had encountered Mrs. weighed the story fudicially, he decided to give the

reasons for his remarkable affection for the crystal more fully on a later opposion, but he spoke dis-

tinctly of saving visions therein. He called on Mr. Wace the same evening. He told a complicated story. The crystal he said had come into his possession with other oddments

at the forced sale of another curiosity dealer's effects, and not knowing what its value might be, he had ticketed it at ten shillings. It had hung upon his hands at that price for some mouths, and he was thinking of "reducing the figure," when he

made a singular discovery. At that time his health was very had-and it must be burne in mind that, throughout all this expenance, his physical condition was one of chb-and he was in considerable distress by reason of the negligence, the positive ill-treatment even, he received from his wife and step-children. His wife was rada, extraverent, unfeeling, and had a growing taste for private drinking; his step-daughter was mean and over-reaching; and his step-son had conceived a victory dislike for him, and lost no

does not think that he was altogether free from occasional intemperance. He had begun hife in a corefortable regition, he was a men of fair squeetion, and he suffered, for weeks at a stretch, from melorcholis and insomnia. Afraid to disturb his family, he would alip quietly from his wife's side, ing, late in August, chance directed him into the

The disty little place was impensivably black axcept in one spot, where he perceived an unusual glow of light. Approaching this, he discovered it to be the crystal agg, which was standing on the corner of the counter towards the window. A thin ray shot through a grack in the shutters, impinged upon

the object, and seemed as it were to fill its estire It accurred to Mr. Cave that this was not in accordance with the laws of optics as he had known there in his younger days. He could understand the rays being reflected by the crystal and coming to a form in its interior, but this diffusion jarred with his physical conceptions. He approached tha crystal more nearly, peering into it and around it, with a transfert revival of the scientific enricalty that in his youth had determined his choice of a calling. He was surprised to find the light not

stendy but writhing within the substance of the egr, as though that object was a hollow sphere of

some luminous vaper. In moving about to get differ-

halor of his curious observations. He same to have to admit the existence of a pleasure would have been to risk the less of it. He found that as increased, the crystal became to all appearance nonluminous. And for some time he was unable to

ses anything in it, except at night-time, in dark corregs of the abop. But the use of an old velvet cicth, which he used as a background for a collection of minerals, occurred to him, and by doubling this, and putting it laminous movement within the crystal even in the day-time. He was very cautious lest be should be occupation only in the afternoons, while she was

seless metalrs, and then circumspectly in a hollow under the counter. And one day, turning the crystal about in his hands, he new semething. It come that the object had for a moment opened to him the view of a wide and sparious and strange country; and, turning it about, he did, just as the light

New, it would be tedless and unnecessary to state all the phases of Mr. Cave's discovery from this point. Suffice that the effect was this; the crystal from the direction of the illuminating ray, gave a clear and consistent picture of a wide and neculiar deced a definite impression of reality, and the better the light the more real and solid it secreed. It was

none the less remained luminous. Greatly astonished, he lifted it out of the light ray and carried it to the darkest part of the shop. It remained bright for some four or five minutes, then it alouly of daylight, and its luminousness was almost in-So far, at least, Mr. Wace was able to verify the remarkable story of Mr. Cave. He had himself had to be of a smaller diameter than one millimotro). And in a perfect darkness, such as could

come between it and the ray, and that the crystal

be produced by velvet wrapping, the crystal did undoubtedly suppor very faintly absorberescent. It would seem, however, that the luminousness was of some exceptional sort, and not equally visible to all even; for Mr. Harbinger-whose name will be

the Pasteur Institute-was quite unable to see any Hold whatever. And Mr. Wase's own carecity for that of Mr. Cave's. Even with Mr. Cave the power varied very considerably; his vision was most vivid during states of extreme weakness and fatigue. Now, from the outset this light in the crystal exercised a curious fuscination upon Mr. Cave. And

it says more for his localiness of soul than a volume

faded, see the same vision again,

a moving picture; that is to say, certain objects moved in it, but slowly in an orderly meaner like lighting and vision changed, the picture changed an oval glass at a view, and turning the glass about

Mr. Cave's statements, Mr. Wace assures me, were extremely circumstantial, and entirely free from any of that emotional quality that taints hallocinatory impressions. But it must be remembered that all the efforts of Mr. Wage to see with any similar clarity in the faint opekscence of the crystal were wholly unsuccessful try as he would,

celved by the two men was very great, and it is quite connecrable that what was a view to Mr. Cave was The view, as Mr. Cave described it, was invarito be looking at it from a considerable height, as if from a tower or a meet. To the seat and to the west

reddish cliffs, which reminded him of those he had seen in some picture; but what the picture was Mr. Wace was unable to ascertain. These cliffs passed north and south-he could tell the points of the compass by the stars that were visible of a nightrecoling in an almost illumitable perspective and fading into the mists of the distance before they met. He was nearer the eastern set of chilis, on the occasion of his first vision the sun was rising over them, and black against the sunlight and pale against their shadow appeared a multitude of soaring forms that Mr. Cave regarded as birds. A vast range of buildings spread below him; be seemed to be looking down upon them; and, as they approached the Nurred and refracted alon of the nighten they became inflistinct. There were also trees curious in share, and in coloring, a down massy group and an exquisite grey, becode a wide and shining canal. And nonething great and brilliantly colored flew these pictures he saw only in flashes, his hands shook, his head moved, the vision came and went, and

His pext clear vision, which came about a week after the first, the interval having yielded nothing but tantalizing glimpses and some useful experiearn showed him the view down the length of the valley. The view was different but he had a curious persuasion, which his subsequent observations shandartly confirmed, that he was regarding this strange world from exactly the same spot, although he was looking in a different direction. The long forade of the great building, whose roof he had looked down upon before, was now receding in per-

and extraordinary length, and down the middle of the terrace, at certain intervals, stood huge but very graceful masts, bearing small shirty objects which reflected the actting sun. The import of these small objects did not occur to Mr. Cave until some time after, as he was describing the scare to Mr. Ware. The terrace overhang a thicket of the most luxuriant and graceful vegetation, and beyond this was a wide granay lawn on which certain broad cresreposed. Beyond this again was a richly decorated causeway of pinkish stone; and beyond that, and loy exactly parellel with the distant chills, was a ing in stately curves; and across the river was a multitude of splended buildings, righly coloured and a forest of moss-like and lichenous trees. And suddealy something fispped repeatedly across the vision, ifke the fluttering of a jewelled fan or the heating of a wing, and a face, or rather the upper part of a face with very large eyes, came as it were close to his own and as if on the other side of the crystal absolute reality of these eyes, that he drew his bead

hack from the creatal to look tehind it. He had become so shorted in watching that he was quite surprised to find himself in the cool darkness of his little abon, with its familiar odor of methyl alcohol. mustiness, and decay. And, as he blinked about him, the clowing created faded, and went out, Such were the first general impressions of Mr. Cave. The story is curiously direct and circumstantial. From the outset, when the valley first

fashed momentarily on his senses, his imagination was strangely affected, and, as he began to soppoto the point of a passion. He went about his hunt-ness lintless and distraught, thinking only of the time when he should be able to return to his watching. And then a few weeks after his first sight the valley came the two contamers, the stress and excitement of their offer, and the narrow escape of the crystal from sale, as I have already told. Now, while the thing was Mr. Cave's secret, it remained a more wonder, a thing to crosp to covert-

by and neen at, as a oblid might neen upon a forbidden garden. But Mr. Wace has, for a young scientific investigator, a particularly lucid and conits story came to him, and he had satisfied himself. the greatest difficulty in finding the picture again that there really was a cartain arthurs for Mr. ter systematically. Mr. Care was only too eager to and he came every night from helf-most eight until during the day. On Sunday afterscons also, he came. From the outset Mr. Wace reads conjour. notes, and it was due to his scientific method that the relation between the direction from which the tion of the picture were proved. And, he covering the greetal in a box perforated only with a small aperture to admit the exciting ray, and by sub-

in a little while they were able to survey the valler to any direction they desired account of this visionary world within the crystal. The things were in all eases seen by Mr. Cave, and

his method of working was invariably to watch the crystal and report what he saw, while Mr. Wace (who as a science student had learned the trick of writing in the dark) wrote a brief rote of his report. When the crystal faded, it was put into its hox in the proper position and the electric light turned on. Mr. Wave asked questions, and saying, indeed, could have been less viscenary and more The attention of Mr. Cave had been speedily directed to the bird-like creatures he had seen so His first impression was soon corrected, and he considered for a time that they might represent a diarnal species of but. Then he thought, grotesquely enough, that they might be obscube. Their heads were round, and spriously human, and it was the eyes of one of them that had so startled him on his accord observation. They had broad, allvery wings, not feathered, but glistening almost as brilliantly

an a new-killed fish and with the same subtle play of color, and these wings were not built on the plan of bird-wing or hat, Mr. Wace learned, but apported by curved ribs radiating from the body. (A sort of butterfly wing with curved ribs seems best to express their appearance.) The bedy was small, het fitted with two bunches of probensile organs, like long tentodes, immediately under the mouth. Incredible as it appeared to Mr. Wace, the personalism at last hereme irresistible, that it was these creatures who owned the great quasi-human broad valley so splendid. And Mr. Cave perceived that the buildings, with other peculiarities, had no opened freely, gave the creatures ogress and entrance. They would alight upon their tentacles, fold into the interior. But among them was a multitude and moths and flying beetles, and across the greenaward brilliantly-colored gigantic ground-beetles granted helly to and fro. Moreover, on the cause-

ways and terraces, large-beaded creatures similar to the greater winged files, but wingless, were visible, become busily upon their hand-like targle of tentacles. Afterior has already been made to the clittering chiects upon masts that stood upon the terrace of the nearer building. It dayred upon Mr. Cove. after regarding one of these masts very feedly on one perticularly vivid day, that the glittering object

there were a created exactly like that into which be peered. And a still more careful scrutiny convinced him that each must in a vista of nearly twenty carried a similar object.

Genasionally one of the large fiving creatures would flutter up to one, and, felding its wings and coiling a number of its tentacles about the mast, times for as long as fifteen minutes. And a series of observations, made at the suggestion of Mr. Were convinced both watchers that, as far as this visionery world was concerned, the crystal into which they neered actually atood at the summit of the endmost must on the terrace, and that on one occasion at least one of these inhabitants of this

other world had looked into Mr. Cave's face while he was making these observations So much for the essential facts of this very singular story. Unless we dismiss it all as the ingenious fabrication of Mr. Wace, we have to believe one of two things; either that Mr. Cave's crystal was in two worlds at open, and that, while it was carried about in one, it remained stationary in the

other, which seems altogether abourd; or else that it had some peculiar relation of sympathy with another and exactly similar crystal in this other world, so that what was seen in the interior of the one in this world was, under suitable conditions, visible to an observer in the corresponding crystal deed, we do not know of any way in which two greatals could so come on reproved, but powedows we altorether impossible. This view of the crystals as es rapport was the supposition that occurred to Mr. Wace, and to me at least it seems extremely plaus-

And where was this other world? On this, also, the alert intelligence of Mr. Wace speedily threw light. After sunset, the sky darkaned rapidly-there was a very brief twilight interval indeed-and the stars above out. Thay were recognizably the same as those we see, arranged in the same constellations. Mr. Cave recognized the Bear, the Pleiades, Aldabaran, and Strius; so that the other world must be somewhere in the solar system, and, at the utmost only a few hundreds of millions of miles from our own. Following up this clue, Mr. Wace learned that the midnight sky was a darker bins even than our midwinter sky, and that the oun seemed a little amalter, And there seem two amail record. - "like our moon but smaller, and quite differently marked"clearly visible as one regarded it. These moons were never high in the sky, but vanished as they rose; that is, every time they revolved they were actimate because they were so near their primary planet And all this answers quits completely, although Mr. Cave did not know it, to what must be the condi-

tion of things on Mars. Indeed, it seems an exceedingly plausible con-And, if that be the case, then the evening star that shone so brilliantly in the sky of that distant vision, was neither more nor less than our own familiar earth.

For a time the Martians wif they more Martians. -do not seem to have known of Mr. Cave's inspection. Once or twice one would come to neer, and on away more shortly to some other must be though the vision was unastisfactory. During this time Mr. Cave was able to watch the proceedings of these winged people without being disturted by their at

tentions, and, although his report is necessarily vague and fragmentary, it is nevertheless very sugseative. Imagine the impression of humanity a Martism charver would get who, after a difficult process of preparation and with considerable fatigue to the eyes, was able to peer at London from the steeple of St. Martin's Church for stratches, at longest, of four mirgtes at a time. Mr. Cave was same as the Martians who hopped about the causewors and terraces, and if the latter could not on wines at will. We served times are certain change

translaters, feeding among cartain of the lichenous trees, and once some of these fled before one of the hopping, round-headed Martham. The latter eaught one in its tentacles, and then the picture faded suddenly and left Mr. Core most tantalizingly Mr. Cave thought at first was some gigantic insect, appeared advancing along the cassaway baside the nearer Mr. Cave perceived that it was a mechanism of shining metals and of extraordinary complexity. And when he looked again, it had disappeared, After a time Mr. Wace aspired to attract the attention of the Martians, and the next time that the strange eyes of one of them supeared close to the crystal Mr. Cave cried out and surang away, and gesticulate in a manner suggestive of signalling.

But when at host Mr. Cave examined the ervetal again the Martian had departed These observations had progressed thus far in silayed, began to take it to and fro with him in order that, as occusion arose in the daytime or

night, he might comfeet himself with what was In December Mr. Wace's work in connection with a forthcoming examination became heavy, the sittings were reluctantly suspended for a week, and -he saw nothing of Cave. He than grew saxious to recume these investigations, and, the stress of before a bird fancier's window, and then another at

He rapped and the door was opened by the stepson in black. He at once called Mrs. Cave, who was Mr. Wace could not but observe, in cheap but ample widow's woods of the most imposing asttern. With-Cave was doed and already buried. She was in tears, and her voice was a little thick. She had just returned from Highgats. Her mind seemed cornwied with her own prospects and the honorable details of learn the particulars of Mr. Cave's death. He had the day after his last visit to Mr. Waos, and the crystal had been clasped in his stone-cold hands. His face was smaller, said Mrs. Care, and the value

cloth from the minerals lay on the floor at his feet. was found. This came as a great shock to Wace, and he began to represen himself hitterly for having neglected the plain asymptoms of the old man's all-health. But his shief thought was of the crestal. He apha know Mrs. Cove's peculiarities. He was dumb-

founded to learn that it was sold. Mrs. Cave's first impulse, directly Cave's body had been taken upstairs, had been to write to the med clargyman who had offered five pounds for a violent hunt in which her daughter joined her, they were convinced of the loss of his address. As they were without the means required to mourn and hary Cave in the elaborate style the dignity of an old Seven Dials inhabitant demands, they had anland Street. He had very kindly taken over a porhis own and the crystal egg was included in one of the lets. Mr. Wace, after a few suitable conscistory hurried at once to Great Poetland Street. But there to a tall, dark man in gray. And there the material facts in this egrious, and to me at least very appr-Mr. Wace remained in the shop, trying the dealer's exasperation. And at last, realizing abruptly that vanished like a vision of the night, he returned to his own roome, a little actonished to find the notes be had made still tangible and visible upon his an-

His amorance and disappointment were naturally tual) upon the Great Portland Street dealer, and be resorted to advertisements in such periodicals as collector. He also wrote letters to The Deals suspecting a boax, saked him to reconsider his action before they printed, and he was advised that such a stronge story, unfortunately so have of supporting evidence, might imperil his reputation as an investigator. Moreover, the calls of his proper work were urgent. So that after a month or so, save for and from that day to this it remains unflicovered. Occasionally, however, he tells me, and I can culte

dons his more urgent occupation and resumes the

the material and origin of it, are things equally

Whether or not it will remain last for ever, with

chaner is a collector, one would have expected the elergyman and "Oricotal"-no other than the Rev. James Parker and the young Prince of Rosso Kani in Jaw. I am obliged to them for certain par-ticulars. The object of the Prince was simply enviesity-and extravegence. He was so eager to buy, because Core was so oddly reluctant to sell. It is just possible that the boyer in the second customer. was simply a casual purchaser and not a collector at present recovert he within a relie of my decorating a drawing room or serving as a paper-weight-its remarkable functions all unknown. Indeed it is thrown this narretive into a form that will give it a chance of being read by the ordinary consumer of Setion. My own ideas in the matter are repotically identi-

on the mast in Mars and the crystal see of Mr. inexplicable, way on rapport, and we both holowed -possibly at some remote data-sent hither from that pleast, in order to give the Martians a ness ceystale in the other mosts are also on our globs. No theory of hallocination suffices for the facts.

"Doubtless—I am very uneasy on the point. We have certainly not enough water to last us five days."

days."
"Be quite easy on that matter," continued my uncle. "I answer for it we shall find plenty of water—in fact, for more than we shall went."

"When we ence get through this crust of lava. How can you expect agency to force their way through those solid stone walls."
"But what is there to prove that this concrete mass of lava does not extend to the center of the

mass of lava does not extend to the center of the earth? I don't think we have as yet does much in a vertical way."
"What puts that into your bead, my boy?" saked

"Well, it appears to me that if we had decreased very far below the level of the zers—we should find it rather hotter than we have."

"According to your system," said my uncle; "hat

what does the thermometer say?"
"Scarcely IS degrees by Resumer, which is only an increase of 9 degrees anno our departure."
"Well, and what conclusion does that bring you

"Well, and what conclusion does that bring you to?" inquired the Professor.
"The deduction I draw from this is very simple. According to the most exact observations, the

sugmentation of the temperature of the interior of the earth is 1 degree for every hundred feet. But certain local causes may considerably modify this

We figure. The difference evolently depends on the confree doublitty of certain rocks. In the neighborhood of an extinct volume, it has been remarked that the row elevation of temperature was only I disgree in covery tel 125 feet. Let us, then, go upon I has calculation—

126 feet. Let us, then, go upen this calculation which is most favorable—and calculate."
"Calculate away, my boy."
"Nothing easier," said I, pulling out my note-book

y and peach. "Nine times one hundred and twentyfive feet, make a depth of eleven hundred and twentyfive feet."

"Archimeden could not have spoken more gro-

"Archimedes could not have spoken more groin motrically."
"Well."
"Well. according to my observations, we are at

"Well, according to my observations, we are at least ten thousand feet below the level of the sea." "Can it be possible?"
"Either my calculation is correct, or there is no

truth in figures."
The calculations of the Professor were perfectly
orrect. We were already six thousand feet despar
down in the burels of the earth than surpace had
ever been hefore. The lowest knewn deep in which

man had hitherto penetrated was in the mines of a. Kits-Bihl, on the Tyrel, and those of Wattamburg in Boherin.

The temperature, which should have been eightyted, was in this piace only fifteen. This was a in matter for confuse consideration.

(To be continued in our Jame (state)

To Our Readers

SOME of our readers seem to have obtained the ereasees like that AMAZING STORIES publishes only repeties, that is, series that have appeared in print below. This is no the case. We have a green number of new measurement on hand at the present time, and are buying quite a good many more. Teeley, more than at any other time, in the day of Secroffiction. Authors, great and

ready, more than at any other time, in sec any o'commission, accounting an excellent simil, are taking more and mare to this type of fiction, and we are petiting an excellent supply of stories right along. Our only problem at the present time is to find room enough to publish all the good occs.

If you or your friends know how to write a scientifiction store, the editors will be

only to spill to bold them area. At the present time, only rather just restrict sort quired, now are such such the plus pass made time to ence who begins and long rateria. If, on the other hand, you have hand of a good stortfettion may then too be appeared in pint at a store fluor or them, and which you take should be published. AMAZENG STORIES, we shall be gratted to have from you. We have an index of most exterdit amont such the source of the published, that of comes we can not know all of them. If you know of a good one, or how one is your passession, we will be more than glob as layer specially, or put to into so which the provision, the will be more than glob as the your passession, we will be more than glob or the provision to the source of the source when the published, that of charge the published is the constraint of the source when the published is the constraint of the source when the published is the published to the published that the published is the published that the pu

The INFINITE VISION By Charles C. Winn



ot buildings a threasand fout in height, above which ascenses of sourcess sirehips duried grouhrough the air. And the doubt were covered with timy discrea!

able at my hands and I will hilld you a telescope

TELL you, gentlemen, this is a pretty nass of affairs. Here all the other branches of science are oven to practi-Autroparry as nearly stranged because of one thing-that we have apparently reached the

limit of development of the telescope, as evidenced Can't any of you suggest anything!" and the trial of the giant forty foot mercury reductor tele-

some which had recently been completed in the oract Malton Observatory altrated blob un among

Politicathy the results had been some too satiscorpressions of the company. Helton, the chairman,

'Possibly see mercury reflector might be satis-

That individual cave a snort of disgust, and his wire red har fairly bristled, so he coat out his "What, that d- thing! Why that thing is per-

H You can't entirely eliminate vibration in did in this case. Yes, I'd like to see you do snything with that creay thing. And if you are fools example to try 2t, after spending a million dollars.

An uneasy afferce falof his constitution.

terregity to oppose his

tiently listening to the disasterse. Glean Pressarthy

predefent in Astronomy, but to an even greater degree in Physica and Chemistry. He had disclosed to been there to bireasif biding the day when their Finally when the tenseness of the silence was

COLD meen was rising over the snow-capped Algebrat meaks stood the grapuntic Holton Ob-

On the steps of the hurs omerste building two

short and red-haired, with bright blue eyes that spanned belligerently behind thick horn-rimmed resolvable. His companies tell and deek had about him an indefinable atmosphere of quiet force and

For ten years those mon had been engaged in ture for the reception of the delicate apparatus which his companies was laboring to perfect in a

Bix months ago he had arrived with it. From that time, with the assistance of a assall crew of

ing it. Only that day had they made the first adfunction it was to perform. For acces successful the two stood, allertly regard-

hones. Then the full dark wan rotains his even. ingly, unblinkingly in the sculth. He spoke shortly Two haurs later they emerged, their faces trans-

they now that night only ten ethem have neer-AT THE opposite extremes of the warmingtons of

the building again. This was there; Coron, the American chemist: Flam-

the four greatest observptories of the world, and others. In the center of the room to which ther were

But now it was strangely altered. No longer was it shly, to a single spot in the heavens. Now it was

need into a roaderous sensionial mounting as deliextely balanced as a precious chronometer. And its shiring curface no longer needed rapid rotation to metal was now set as rigid as steel. The master The party gazed in silence and wonder for a

flight of stairs to a large room under the center of It was a marveless room, filled with an intricate was busked series after series of vacuum tubes. recented upon long renels of abaning bakebte. An-

other wall was completely hidden by a lyage switchheard, studded with a seemingly endless array of awitches, control knobs, rhecotate and levers,

affine severs about hix fost rounce. Leoking down upon it, the men could see the reflection of a strungs. piece of apparatus pointing directly down upon it, from the outling above. For some moments the party stood gowing in

THE TELESCOPE

ENTLEMEN," he said, "here before you Gies the results of ten years of intensive sufare to-night. However, I do not expect you to be

Then walking over to the board, he threw one of the awatches. Instantly the low hum of an electric

"The power comes from a good-sized hydro-electric plant down on the other side of the mountain," smiling gently, "Holton was an invalgable factor in the contraction of the mounting for the reflector Then, turning to the board again, he moved a lever which brought the aperture of the huge done

around to the east. Another awitch, and upon the a hope X-ray tube sugare into life, unseen to the watchers below. Then, guiled by the marter hand,

Parworthy speke sgain. "Gestlemen, I now have the reflector in the room below trained upon the He threw snother switch, A low burn came from shove, which speedily grew in pitch to a riorcing

white which even because broudthis to the histories He turned a control knob, and two of the vacuum tubes lighted up. Simultaneously a stronge beam of luminescence shot downward from the apparatus

Garing down upon the serven the men saw an object that riveted their immediate attention. There, an though floating upon the silvery douths. Rapturously the group looked upon it. Farwarthy, with a dexternin twist of his wrist.

anapped two more of the tubes into the circuit. The first more fixed away, and was replaced by one. filling the entire screen. Then, as halb after both finded in the across showed only partions of the golden surface, and the image grow more and more detailed. New only one great mognitum was visible to the watchers; now only a portion of that mountain; now only a half decen rocks upon als aurface. and finally the surface of one rock.

Then the acception with an admoration to his companions, threw in a switch which brought the last bank of tubes simultaneously into light The former places faded away, and in its place appeared a whiring most of trunsparent spheres. visible only by the onelescent light reflected from

their surfaces.

MOON'S MOLECULES BNYLEMEN." said Payworthy, his usu-

ally quiet veloe trembling alightly with cales of one of the rooks on the surface of our you for the money, which you so kindly provided." A subdued murmur of approhation was the only renty he received from the enchanted group of acientists, as they rapturously watched the fifting

For some recovering their stood atmost with the wonder of it. Then Faxworthy abruptly pulled open the switches, and the image faded from the expert "Perhans was would like a brust sanianation of the syoning," he suggested, at the same time glano-

isg at his worten There was a general redding of boods in assent and he begran. "As you probably know, I have

heen engaged in research work in Physics and time I have made some discoverion on these subthis present undertaking. Up to this time I have revealed their nature to no one except Holton, who has been completely in my confidence. If you will And he disappeared up a ladder, leading to a room In a recognit he returned, heldling something tightly classed in his bond. Opening it he disclosed

a great flat tube, filled with a reddish viseld lightly in the extremition of which were sailed several fire "This tube, gentlemen," exploited the extention "In the very heart of the appearatus you see should

tains a quantity of a previously unknown element. azaletante twenty years to irolate the amount of Lucism you see in the tube. "The connected free in that this element has the same properties as selenium, only in a million times

an absolute non-conductor of electricity, but let the tiniest ray of light strike it—though that my came arross the universe—the substance immediately bearross the universe—the audatance immediately be-comes proportionately conductive. Within the lightflector comes to a focus upon this tube. I shall not

slowly the sections grew less in extent, as they grew visitar and phinar in detail. Now the view were

from the apparent distance of a million miles, now And slowly the delicate lines had grown in breadth, until only two of them, now broad other bands two fact wide, intersected in the middle of the screen, in the form of a large circular anot. The center of this spot was thickly strewn with small

hours to explain antisferentialy. Due to the lack the discovery of this element further than to tell

DESCRIPTING MARK THEN drawing his wetch from his pocket, he uses, the planet Mara will have reached its elescat possible approach to the Earth. Then we shall learn her secret. If you will parden me a mo-

sound of ductant thunder became plainly andthle in "One of the summer thunder storms common arrong these magnificants is coming un." he emplified amply. "I will adjust the reflector now, lest it give

"But Monatour it will small the observation! Even when it recodes, see air currents will be atroctous!" oriod Flambeau in the first words he had

Paxworthy made no verbal reply, but metioned the structure. He pointed his finger to the moon, which was being slowly changed. Pollowing his motion, the others good in the same direction. What they saw was a shostly extinder of faint roof, and reaching outward into space as far as

PTho disselling was 9 belate embland their guide. "The other waves of the fortisth octave which have the property of expelling all matter from their path. The range of this ray in the atmosphere is about air hundred miles, and as long as the telescope aligns in its path, it effectually

The wondering olivine that followed was broken only by a stifled "Mon Disu!" from Flambeau. That seemed almost incredible to the group of dis-

The silence was not broken, even as their guide led them back to the control room. Swiftly be brought the column telescome to the saroth, where cally the prescrible bond of light on the done swang Again the first two vocuum tubes flashed into mon the screen the image of a great red star, mag-

constituted network of delicate lines could be dis-Two at a time, the varuum tubes were switched nto the efreunt, and ever the image increased in size and detail. Soon it covered the entire screen

MARS AT 10,000 PRITE

THEN without warning, Faxworthy anapoed on all but two of the remaining tubes in the bank. Instantly the masse on the acreen faded into observity, and in its place appeared a wondrous. some. There, so though from a ten thousand foot

bird's-eye view, stretched a great city. They were looking down upon great buildings a conserved airchine darted grazefully through the

The last two bulbs flashed into life, and the view came to the apparent distance of fifty foct. The New is a raiment resembling that in which Cassar's on also, all of electors form and frature, robed in

The last two tubes again faded into devirons, and

With an almost impropertible recovered of his hand upon a lever, he brought the landscape flushings across the screen in a gioricus pengrama.

planet from pole to pole, the storm that had been moreoten. Lightnian flashed and thursday shook the observatory, but so engrowed were they in the interpretion by the affect, ghostly ray without that

miles, they viewed the surface of the pienet from summit of a great mountain carped with an engry mone black blotch aroust across their vision. With skillful band, Faxworthy brought the moure back to the center of the arrests. The black black was a large huilding completely covering the top of the mountain, and towering five hundred feet into the air-an alread asset region of the building stance! Again the last tun helbs fleahed into light

engrment concern mirror two hundred feet in seen over one over welching to from overs and they have been doing so for countless ages."

The MAN from the ATOM By G. Peyton Wertenbaker

(Sequel)



What Went Before

ROFESSOR MARTYN ums on insynter of this little marking, school is attached with strang. etricken and decides to meet the Caton't button Then he suddenly finds howeelf coming up out of scoler-fouting. He goods ashore, but he is so en-Amusted, he falls right off to sleep. When he monken Amount shough. He more and former amount for some excessed to enable him to no back to earth and toothstrongs planet with storage inhabitorie or for of sourced in intellect that he feels like a among graces them. He does not understand their less

THE MAN FROM THE ATOM

did happen.

NEVER hoped—never dreamed, when I abould ever see the earth agent. Who all the knowledge of insuperable fate

which had come to me? Who could home to over--or recenthing year like it. And it is a story a than the stary of my lourney. And like that it is

When I but wrote, I was living in a state of awfel enisacence upon a planet of the star Debitor whether it is even existent now for us. Perhane

box again? I leave to merrow-but will also be I saw little enough of that world, and what little I did one I shall not attorge to describe here, for it Martyn's aid, for a scientific magazine. But when horas to grow large, the planets to become visible so they careled in their paths. I had no desire

no throught for the consequences, I came close to being there in space with a world, a laying world.

down over it as you would and I espid imagine to

by I did not nurrounder to that impulse. But I buseled a great hystorical lough, and it must have heen like the langhter of a god reverberating

All this time the planet was growing blazer. It cinating acrohatic antica, to propel myself farenough sway to place my feet almost upon it. Still enough away to place my seet aimset upon it. Still it grow-or should I drop this playing with appearaures, and may that I shrank? In any case, its height in dismeter. Then I let my feet push through "gravity" switch, rather undecided what would happen, and caring very little, I suppose. Nothing The skuds came closer and closer toward my face, mounting up over my body and growing each moment more billowy and more illimitable. In a little while they had enveloped my face, and a few

the first time since my departure that my own size

been too sleepy to be interested. Instead, I looked down upon long, rolling plains of golden grain. see. The ocean earne to within a few inches of my

light very seldon ponetrated through the clouds in all its organit splender, but the world was no There seemed to be a clear, diffused, blaich sort of hight over the face of the planet.

I grew smaller, coming observable closer to the

upon. In a little whole alse. Once I turned it on

> little by little with infights. There was nothing shout me by which I could paper my desired metal I had about Without any thought for nonsible differences in the atmospheres of this world customed, I feverishly pailed off my globules believe

> and my said. I was exected with a excet breath of bething in its freeh purity. Then, with a sigh, I need down into the soft erain and watching the tail stalks rippling above me in the wind, I fell When I swoke, it was dark. There were no stars to he seen and no moon, but there was a faint radiance, a phoenhormousene, upon the crais in

which I lay. I did not rise for a long while, for I was therefore hardenale of the futelity of my life with my world gone, of the new life I should have to build up here, learning exceptions all over again

as though I were a halv. After a while knowing the madness such thoughts as these might lead me to, I tried to distribut them, and I assed up. I was smaned at first to discover the grain about a foot it had not grown a yard during the night? I soon realized, however, that it was I who had grown a

with increasing slowness. I now removed the tiny instrument, which I had kept on after taking off the suit, last it should come to harm. I was restaled to know how I might reach civiliza-

tion, if there was civilization. But, remembering the see, I set off in the direction I thought it lay, carrying the suit and the machine, both extraordinarily byhi. I walked for a large part of the pight. I did not realize just how far the ocean might inches from my huge foot. I was fairly certain after walking many miles that I must have taken the season direction. But no. A little while before the dawn I beard the faint sound of its brookers. When I reached the beach, I once more perceived the light of the city, assuming that it was a city, one absured to alcorre it.

ing atructures thomselves, but an intense golden radiance amond dealf over the sky, as though it might really have been the moon rising. I walked along the beach until down, and then directly opposite the City. I should imagine it chites arrested. They came out of the cast, from the direction of the City, Bring very low, They

flew together, several burdeed of them I should imagine, until they reached a point on the obsesprobably ten miles below ms. Thus they seemed to disperse, some into the country, a few at betarvals bayond my imagination. I bogen to wave my arms

A few minutes later, after passing purhaps a mile beyond me, the plane turned and glided along the beach until it stormed a hundred rards or sp

amon It was a small waching of a wast curious and delicate design, but it did not differ very redically from those I had seen on the earth. A man leaped out and came toward me. He, too. was very like world, but shout a foot taller, and delicate, his build very slight but quite oraceful He was unclothed except for a helt of metal and several metal ornaments upon his arms and lear.

He carried a small, stratght instrument of wetal uoun me. I raited my arms, and cried "Water" or comething ornally abourd, which, naturally, he could not understand. He did not trouble to reply, realising. I suppose, that our languages were different Instead he verticed ma to approach, and, backing

cock-pit, no enchaure. It consisted only of a platform, same five feet wide and ten feet long, with of severe dauga was affixed to the forward end, be-I mounted the platform and set down at his command, in one corner, Still holding the tiny inmy wrists and one sokie to a couple of metal cuffs, syldently for that purpose, upon the real. He flang the suff, after a contemptuous examination, into the corner beards him. I grinned at him several

away from me, he allowed me to come up to the

place. I need also also to enter it. There was no

times during these operations, in order to show stared at me with an expressionless face and turned was in his eyes, I fancoud it was dispust.

A moment later he rose swiftly from the beach despondent revertes as we flew over the water with sometime southness. He went have after some along to the other planus by wireless, for a short while later I new them all falling in behind, far back, they might all have been courthing for me. I had forgotten how convicuous my giant body would

At the risk of emitting details which the reader deshine in the scallebt, mile after mile, extending far out over the borison; buildings of immense bright, standing each many hundreds of yards and kept superently at a uniform heat, while I suspect that in some war the clouds above were arti-We entered through great gates in the glass dome, and tolored a throng of other planes, meetly very small ergs, and in a few minutes we had landed

on the roof of a building your the limits of the A number of the tall men then gathered about us. They were all clean shaven and they were negativeDr without have. They had an air of age and wisdom, sithough their faces, like ther of the fiver, were smooth, delicate, and impensive. I was released, still under the scrutiny of the little weapon, and conversed down, through elevators and moving passages, to a cell of white metal containlay a low bed, some small chairs, a table, and other more necessarion. Food was not before me, and

then I was left slede. I never left that cell thereofter until the memory of my final departure from The days I spent in there were a long and examinations. On the day that I arrived after I

had eaten my meal, two of the men to whose care I was conveitted same with a mand to inspect me They said nothing during the whole time they were there I was motioned to contain reveald. Half inavailabourby I haven to talk and they needed as though they understood-I cannot say how; I never THE MAN FROM THE ATOM

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Issued in what fachion they interpreted my speech. "You—are—Kirby?" Her accent—how easily it

I told off my journey and of its consequences. I titled reproduces the sweatness of that clear accent, see

about my world. At intervals they radied, I suppose to assure much they were fleening. After swill II was given writing materials. I words as appeal to them to explain their world to me, so that I night take up the frayed onds of my life upon it. But always take only noded at me, and at last they departed, taking with them the world. I not written. A little while below, overall passed were sent to my cell. They hardled me on brough I were sent to my cell. They hardled me on brough I

I was appreciatly circu crosspl for their seasibilities, I was left ideas again.

This would not for days and days. Securities on again, Scottines the experiment of the season of the season of the season. Scottines three were other visitors. Every day I was forced to submit to the altendance of the guards, this super species of the season of the season of the season of the season. I was never species to All day leng, when I was about, I was not set of the season of the seas

ook, terrible thoughts of what I had seen and lost and would not known. I should have geen cost, I and would not known. I should have geen cost, I for writing underslate—the only sign they over gave to some manuferens fit of rage sension them, had those gazden int always been thou, with their thip, they have been always to be thought the property of the sension of the sension of the sension of the sension in materials. Thereafted I was able to questlosure

and hears setting down the details of my strentines, recording all my thoughts and derres. I have given been only a small parties of all that I work. I Both as assact. I had never helder resulted so this by the worder of the alphabet, of this thing we call writing. By porting out all my heart into words, by engreating the thinns that home no oppressively over my least. I was all to make them a little

ling and oglo.

But this, thank Ged, did not go on forewer. For one day Vizia came. She said afterward that it had keen only eventually which he he to go cell. Breezylody in the City, everylody in that words, seems to have been widthy carries in too but sitzuage correctors from the distant star. But Visia was the displace of the King of the planes, whose the displace of the King of the planes, whose the complex cuts or so for a surface of the control o

physicist. Vitofa cannot in state, with a guard of the menand an ascort of the scientists. I will not sow that Vitofa cannot associate the scientists are supported by her grant beauty and the ansishility of the ricatures, no fine a centrant with the impossibility of the rical scientists of the scientists of the scientists of no own height, and the most present sevence I with all of the rical scientists, and the scientists of what all of therets, and then—then the popled! The first sounds of human speech I had board, on the plants. And the epide English (Day a few leybox

had learned them, fust for the amusement of it.

from the reports of the scientists who exemined me.

"Stripty Yea. yes, I am Kirby, Yea." And the remided apains and I medical measured of the accordial pissum in the syste of the accordial pissum in the syste of the strength even more neglect seen more heightly when the new my sweep grin. Indeed, I fancy she was about to keeply hough at me, but perhaps my very sumplicity much bur calm again. Fee—do you neel—I did not hearn fee a here; must not consider the control of the co

nothing, just stare at her open-mouthed, amened

delighted. Then I managed to stutter some foolish

and intrinsic territories for arrange parties in white they are the highling, as we would more a mount who taked with a pupure vices and gripped and supply distances, both. Het I has to thise that designed internally shoul. Het I has to thise that they have been also as the supply of the second than the imperiors manchool of those selectrics, as the distance of the second of the selectrics, as the distance of the second of the secon

cold and hard as it had been forces.

The road layed as some darks, each five a stige. The road layed as some darks, each five a stige. The road layed as the layed as the latest and the layed as the latest and layed layed as the latest and layed layed as the layed as the layed as the layed lay

charizant bare with Vanda! News was a parallitid be been or sell but I was content once, for its serend that abs breught all the heavity of the universe is well been, the smallest, the grid and the green of the fields, the bits of the san-weary-thought and the present of the fields, the bits of the san-weary-thought was the best of the san-weary was the same of the field in the same than the same the best of the same than the same that the same t

for them.

But I had to confess to her that my own intellect probably was not so advanced as here. And it is this, it same that make our conveniently make the

AMAZING STORIES

lightful. Women to those scientists were recrely a course of hustry romains the same. That is the holospoon fact. Except in rure case, there was no best from in for run explosation."

I would be supported by the support of the supp

blobogy, but leve.
So we were daily together for a long time. Each
moment of our conversation was wonderful to us
a planet unknown to us. I remember very little of
what she teld me shout that planet—it assume that
I can remember zothing but Variah breath, has low

I can remember nothing but Vinda hersalf, her bow votco with its dictious account, her eyes, har heireverything that a lower always remembers. But I had not fregetten my braging for the earth, At first I was able to lose sayouff in the wondorful things the tool me of her yelenet. But here, when I talked of my own worth, I became homeshic and I talked of my own worth, I became homeshic and I have been always to be a support of the conlinear the support of the contraction. I have been always to the support of the I was not the support of the support of the support of the I was not the support of the support of

I target of my own wers, I receims increases an absorber as a hopeless. But somested to grow some thoughtful as I apoke, but at the time I did not think it was more than an endeavour to form mental pictures of the things I related. One day, however, when we had taked for a king time of the sorth, a silence followed which lested for many minutes. At last the sold which lested for many minutes. At last the sold is a sold in the sold in the sold for the sold in the sold in

one said!
"If you were able, you would return to your earth?" I raised my arms despairingly.
"God, yes?" I cried, "but the desire is all I have.
No man can concer time." But was very thought-

ful for a moment.
"It has been done," she replied after a while.
"But Vinda, one counct re-carriers what is poss-

"Ma," the agreed, "but one can do almost that, I do not know—but up urch has a screet—"As served. What, I fall me what?"
"As accred! What, Yithal I fall me what?"
"As screet! What, Yithal I fall me what?"
"She product this pay first of a theory. "But product this is would breathleadly, even frequetting she beauty as I watched her fast for serve upon of the thing she was about to tell me.
"You have maken," she said, "of n reme called "You have maken," and and, "of n reme called "the server maken," and maken," and maken."

"You have upone," and uses, "Ot a "we have been any who loss leasation on your earth, and of other man who loss curved. Score of them, you may believe that appear to see curved that, if one green sufficiently fare, be will return to the point from which he started, Yours ago we made descovers on this place at the Yours go we made descovers on this place at he that the curvature of time. And our ordenes he tought that, if can were to life forever, be, would find

"You man-1"
"That a time comes when your world or this world, after having fived and died, will live again and again die."
"With the arms history, the same civilizations!"

"Yes. For they took so that there is a dusting in the life of it didner, that the growth of the universe follows definite oursess in which every foot, every incident, it interpretally seven into a texture which embesses the whole, and that every author of mus or nature (and mus a page of auture) is inevitable because it grows out of animal foeces. The secret of all this we wante have never incomed, it is the triany of the extention, But the which has been considered to the contraction of the whole the contraction of the contraction of the con"And the same people! Martya, and the reet?"
"Tax is what they say." I isoped up, and began
to walk wildly about. To return! To see Martyu
again, and the reat! And then a thought came to
ms. I grimmal bitterly.

again, and the reast. And their a thought came to me. I grimned bitterly.
"But that will be millions of years away," I said, "and I shall be dead." She kooked at me for a long while, and then abe answered; "No, Kirby. You passed millions of years in a few instant during your sreat tourney. Do you

not see that you can grow large again and that the millions of years will flash by an swiftly?"
"By Jeve-yea" | I shouted.
"But you would be leaving us very seen?" she said.

and.
"If that is true?" I cried, "Why, I would leave tomecrow!"
She turned away, and in a moment axiswered,
"Not tomecrow, perhaps, but in a few weeks." And, suddenly, she went away.
I tild not along that night with the worder of

suddenly, she went away.

I till not along that night with the worder of
this truly unbelovable thoug. All naght, all the
next morrising, I pased control years are your
vositing for her return. When she did arrive, I
leaged her for more details.

What can I tall you," she said, "who know no
little myself. I have spoken with my curos. He

same great source underlying it, some great explanation, which is always just free depts began my great. I soom to use for an instant while it that the same is a source of the same instant while it that ever and show the cycles of time, is a great general progression which makes the civilization of the universe always just a titled farther advanced in each necessive cycle before they demand a superior of the same in the same in the same intense, examples he said, to the path of the suwhich carries the planets always out a little further in typos, although each year they return to their in typos, although each year they return to their

messely confusing."

"In other words, if I returned to the earth, if the words, if I is the confusion of the little further advanced than when the confusion of the little further and the first state of the confusion of the conf

an any, on the earth of the cycle you had left. In come to find your friend, Martys, it would be necessary to go beak to an earther year which we cannot have, which you would, therefore, have to estimate yourself."

"But," said, "there are things it is difficult to understand. In it troe, for instance, that there will

"But," I seed, "there are things it is difficult to understand. In it true, for instance, that there will ever be another incarraction of my body which will leave a three will be and the state of the contracting?" "It would seem at. And that incarraction would rely return in the cycle following your return."

"How complicated it all is?"
"That is only became we are not able to understand it as the scientists do. They speak, for instance, of the dimension of size. It seems that there is a direction, which we cannot quite grasp mon-

THE MAN FROM THE ATOM 145 group time as a director to spend in our various sizes, before I could return

taily any more than we can grasp time as a direction, which extends from the annell to the great. That is to say, when you grow you are really morning in a new dimensions which is linked, how I do difference between this universe and the universe of the which is a part, as atom, as a difference in space through another dimension—similar to the difference on the same of the property of the proper

"Est really, that is to observe for me."

"Est really, that is to observe for me."

"Est really, that is to observe for me."

"In the me."

"In all the read of time as a dimension, that year

psycology are the me."

"In all the read of time as a dimension, that is point

has always reside that if may mind. If I were to

return during some critis in history and foreful

the middate that would be made, could that miss.

take for rectified, charging the whole course of history ¹⁹
"That," also answered, "would come under the head of the progress which civilitation makes from cycle to cycle, I think. You small reasonable that all these things are invertible, If it were your destiny to return at some caller point in your laws, and now changes you might effect is history lows, and now changes you might effect is history

would also be innevitable." Again we were affect.
At last I roused myself from my recentles.
"All this," I said, "sector very dies and unreel to me yet. I suppose that is natural. But we must begin to sait. Good your actentiats help me in the precious of theiring the point in history where my world will be seen as a 100 me.

way steadily for a memorit.

"You are sure you west to go?" she said. I smiled.

"I carried imagine withing not to," I said. . .

Oh, feel that I was I if I had only knows how much

On, feel that I was! If I had only known how much I should some day with to return to her. . . "Then," also answered, awerling her eyes, "I think I can help you. You kept records of the time yes agent in year featurey?".

"As well as I could," I replied.
"Can you draw a diagram of the stars as they locked from your earth when you left?"

"I am sure of E," I assured her.
"Taen I think it can be done."
And, for the rest of that day I sat with her,
drawing my nego of the sky from memory, setting
down extracts from my tale of the former. When
the left, she had all the information which site

bought would be required.
Again I tails pass over the next few works with
a few words. During that time she seem cook day
to the could be the control of the control of the
desired could be could be control of the
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desired by the could be desired by
desired by the could be
desired by the could be desired by
de

find you would be sould then fourse fast the stee I

should have to become and the time I should have

solved. In turn this did essaid to reserve while in Ellissa of your were registeries, and so embessible process being reviewed as my this did not be the process being reviewed as my this did not be the process of the

again to the world in its next cycle, unimagnable millions of eons in the future.

When the day came on which all these salenta-

tions were finished, Vinda brought me my aust,

in the universe I was leaving, regardless of the various sizes I might assume, It had been connected

by those marvelleus men in some feeblest to the

machine itself, so that the growth of the machine

weath record a corresponding swiftness in the passage of time. One dual recorded vasas, When the

mode worked a seriors swiftness of probition on

the dist, it coused, and the next inghest dist, in

thousands of years, continued the record alone, her-

awaited us. This time I would not be chained to the rad, but I would start beliefs it with Virida. We passed out through the City precisely as we had come in, recorded the easy and heeded serves. It toward the invisited upon where I had first appeared. Virida and I stood alone in the stem of the platform, leaking out over the retreating water and the City.

"Do you not think," she said, "that you will be disappointed when you return? Will you not find it wery french to take up a hum-drum life after all these exotle adventures?"
"No doubt. I shall?" I answered, for, more that I

was on my way back, I could admit many things "but there will be the compensations of friend-ship and other things. And, anyhow, it is my dectiny." She sighted.
"Yes. . . it is your destiny. In there, pechape, segeones when you have and who calls you back to

berri'' I kughed lightly.

"By no metan!" I said. "I am inzume. I have newer falsa in love." For one lies, many thous, without knowing it.

"You are very unfortunate," she said, "or per-

"You are very unfortunate," she said, "or perhaps very fortunate; it is hard to say."
"Are you, then, is lowe?" I saked her. She tooked out over the sax, her face turned away.
"Yes," she replied simply.
"Then I with you the present success." I said

formally. Ani—to you know!—I was soldenly a little pripated, without at all knowing why. It may be that now are room includential than women, but it is certain that they are sometimes more correlate fools. So we went runking on through the als, cool, fragrand, quiet. How can I ever here withed to AMAZING STORIES

We exce to the fields upon which I had landed. There I put on my soil with fewerish hasts, as though afraid last it melt away under my hands. I adjusted the machine and the chromosster upon it with Vitodi's sid, and then, isolated in a profound stence within my plast gible, I stood waiting for the base at which I must begin my journey. It about the my loss of the contraction of the base of the my loss of the machine in the consecond three in feer immatizence, with the two carbons

normed to me that codious hours passed while I stood there in item impatience, with the two cardons guards watching me. At the last quarter-boury Vinda moddenly turned and went behind the machine, where I could not see her. But I was too handly watching the face of my wrist-watch to see

At last the success came. I smiled a Homeric min, and wrond print all the two panels as I at min, and wrond print and the two panels as I at the print and the print and the print and the print and the third prince and horred to the machine. I began with the usual diseases, to grow, with decode grows where a moment later, these somations had passed way, and I speace our grant. In all decode grows are all the lack from grant, I and strong grows and struggling between the two passed with criffediby to the print and the print and the print and the print and the lack from a disappear, profittly to my and I find a modeln report that I had not been able to this print and the print and the print and the print and the lack from the print and the print and the print and the cold if fit a modeln report that I had not been able to this preparation. I was had frequently and the total print and the print and the print and the print and the cold in the property of the print and the

I emissio, worden may seem her one faile(), and I emission, worden may seem his come faile(), and retargles, Per moment also started and easeed her attrapples, Per moment also started not with an expression scorer super, I thought, that anything tools. Thus, quidely, the turned side whelele well-like too. Thus, quidely, the turned and whelele well-like too. Thus, quidely, the tenden whele the retargles and the started ways foot, again,—alternative the started and the started ways from the greater and destrict ways toward the mas. Per a bear (from I followed) in the like ways. The start (in 18 followed) is the first.

I had pushed up through the Oracle, and feet it.
It critatily is not accessively to detail up referrs,
for, in every respect, it was like the first journey.
For a long, imposition, monotoneous time, I grew
larger and larger. Fortunately, it was not necessary to go absord the limits of the rately, as by sow
I was observationed to could them. There as a certain to
I pushed the bettern hottom, and the last was no

any return use attent way, in without sections. In was the twenty-billed due of May, in the year 144V, that I arrived. As Vinds had feetedd, that year yell derived with I for the May of the Association o

On the day that I arrived in New York, I went at cases to Marryin laboratory. I was among to find it deserted. I was absolutely at a less, for his name was set at the telephon directory. In despiration, I called at the offsee of a reverpaper. You will to me it was a must have the offsee of a strengaper. You will to me it was a must have the off disposting which can be made at must be must be an extra the state of the called a state of the offsee of the offsee

realized, when I fusich to return, the hiddeen mistake he make in forgetting that size vouid afford the residitive tength of times. He had explained this, explained the whole edge, and it cannot a territorial time country for the "restraining" of satisfacts, who were said to constitute "the greatest ammone to car country alms the civil war."

Resident to any, my responsance has created a fan more terrible remarks. The time, between, if it is former to the execution, the constitution of the force of the execution.

Motype's some from our suggestion of Kloses had due the insufaints—much as it less of the people. Of course I must resource, difficult as it is considered in the contract of the people of the Reynolds of the Reynolds of the Reynolds of the Reynolds of the People of th

here: In the last cycle. For instance, the America I know use a Republic still, whereas two, you know that it is the Monarchy which was declared by Theodere Rosservil cultury the Gernal Wor of 1819, and which is now raised by the Empower Theodore II. In spile of this and many other things, however, the pile of the and many other things, however, the pile of the said many of the things, however, the infl. Those who are inferented in the characteristic of the well to read the book which I am preparing, is estimated in the contraction of the contraction of the bit own, on the jerney which I have recognized

To-nective moraling I have this earth, perhaps for the last time. You, who have read this attentively, must realize by now the love which, all susaspectagy!, I fell for Vinda. After a few morable bere, I some realized the turrithe ministes I had made —for I am sure that also loved on a well. During the last few years my bungling for her has grown more amhazardly great with overy hour, and I canmore unbiazardly great with overy hour, and I can-

the list few years my longing for her has grown more unknowingly great with every hear, and I cannot remain here any longer. To-morrow, Martyn will accompany me for the last time to that themstory in the country which was the heginaling of all my finitiative adventures. He will say good-bys again, a final pools-by this

time, and he will adjust about me the sait, the globe, and the machines. I will press the top button —the top hutbon! And then—only a few boars urtill I see Vinda again.

Martyn has made the calculations. I shall appear It will of course, he in the next sycle of time, and there will be charges. But acredy my Vinda will be there, and I shall be shie to take her in my areas and tell her of all the lave I have for her. -just as this Martyn is the same Martyn I left, so will that Virds he was Vinda Strale it is the There is one thing that sometimes worried rev keping mind. There is this other Kirly-this double of mine, this other we. Purhams he will have

> The Infinite Vision By CHARLES C. WINN

Then the storm outside broke into its full fury. Lightning played in rapid streams, and thunder school and passbood with mighty dire Spidealy a bolt of blinding light reached down great ray slowly fall in a wide are to the carth.

a terrible sev. "THE BAY!" he shricked and leaved toward the far end of the switchboard! But it was

more perception than I have had (for does not each

most him there-meet myself! How impossibly it

severes of Pre and William Wilson! For if we

ment, and we both love Vinds, there will be only one way to settle it-we must fight, fight to the

we are the same man will the dooth of one mean the death of the other too? It does not matter.

At least I shall be able to say at least once to Vinda

With a midden levels, the thing on the mof had fallen completely to the perpendicular. There was its with riming out the very vitals of the delicate appearates that gave it life! Then it grew dark.

And above in wild cadence the thursier drams of

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OFF ON A COMET



HE story opens in Africa-in Alarria-nea the confeet An affect in the French ormu-Cantain Servadee and a Rearism noblemen -Court Timescheff-are covering to finit a duct attenno, a midden convolutes accurred and a great phanes in the antiserre was noted. The sun year in growthy was reduced so that they could turn to a sons a charge on the contour of the country and as the chore was charged. Everything was altered.

The Business mobilescen consect a market the "Disbruse." And now Captain Servadae and his servant one this on the distant aroun. She reaches the shore and finds a cafe harber. Her ouner leaves her and maste Contain Servador. The dust under these is nut to mark to employe the surroundings and to

on by the erenzo-con on the bettern of the lend. bed. Some English officers are found on an isolated most sabled once enmoned to be all that once left of the Rook of Gibraltar. Presently a scaled two is found floating on the under-us old leather teletennerature sobish has been own blok man fell to that of inter-stellar space. Later, in the mids! of these fears, some more unhabitants are found one a charming little piel. Then another measure and solder they betale themselves to a core in the side of a volcano, where the temperature is heat there a third message from the astronomer. The arean new is france over. They not exchal sleich, runners under the boat and so off with almost iceboat raced and find an felund on which there is a

find a man, apportably dead, but solo proper to have

Off On a Comet Or Hector Servadae Re HILES VERNE Rook II

THE return of the expedition, conveying its contribution from Formenwas raised to a total of thirty-six On learning the details of his friends

did not healtate in helicolne that the exhausted individua. who was lying before him was the author alike of the two upalgood documents picked up at edge of Gallia's movements; he

tial speed; but there was noth

The only intelligible words which the astronomes had ottered had been, "My comet!" To what could the ovelamentian refer? Was it.

if so, was it implied that the name of the comet itself was Gollia, and were they mistaken in augspace? Again and again they

discussed these questions; but found. The only man who was able to throw any light upon the subject was lying amongot them in an approxima and Apart from motives of he-

after making the encouraging

give the body such a vigorous

which it would be possible to recken what time must ened serious injury to any ordinary mortal, whilst shares before also would again approach the surth? they administered cordisis and restorables from

his exertions to recall what were the circumstances more and more convinced that he had once been

familiar with them. Perhaps it was not altorether had never seen him ourse the days of his verily, that has been fermed the age of ingratitude; for, in point of fact, the astronomer was none other than Professor Palmyrin Rosetto, Servador's old science-

After completing his year of elementary studies, Heater Servadas had entered the ashed at Saint had naver mot, so that naturally they would wellwich sees from each other's recollection. One things. on the other hand, might conduce to a mutual and permonent impression on their memories; during the year at the Lyofe, young Servader, never of a very studious turn of mind, had contrivat, as the why storings turn of mann, and contrived, so the lead the poor professor a life of percetual torment. and rare in a manner that was a source of un-

harryded delight to his andience.

Two years after Servedec left the Lovde, Professor Resette had thrown up all educational umplayment in order that he might devite himself entirely to the study of astronomy. He endeavored to obtain a post at the Observatory, but his uncircles that he failed in his application; however on his own account to carry on his rewayshes withdiscovering three of the latest of the telescopic aundred and twenty-fifth comet in the catalogue; but his chief delight was to criticise the publications of other astronomers, and he was never botter

pleased then when he detected a flaw in their reck-When Bex Zoof and Negrete had extrinated their have recovered by Sarvadae and the Hentenant, they found themselves face to face with a shriveled little man, about five feet two inches high, with a round hald head smooth and shiny as an cetrich's aighted people seems to have become a part of their individuality. His person system was remarkably developed, and his body might not inagely be comthe wire, hundrois of vards to length, in permented he had been partially diseated of his slothing, his heart was found to be still beeting, though faintly. Asserting that while there was life there was hope, hour, the astronomer beyond a faint sigh, which are long was followed by another and another. He there correlately, but without exhibiting any conseemed to escape by line, but they were crute unhis forehead as though instinctively feeling for comething that was recovery; then, all of a sudden his features breame contracted, his face flished *My apparent premiutes, and an entire pres-

In order to facilitate his operations, Ben Zoof had remayed the anestacles in quite of the tensuity with which they recently to adhere to the tenselty of his pottent; but he new ramidly brought them. necmed to be their natural position on the agriffine rose. The professor beyond a love sigh of relief.

Refore long the astronomer rouned himself a little related into his comptone condition. When next be prened his aven. Contain Servalar harmanted to be bending flown closely over hom, examining his features with surrous scrutiny. The old man darted said sharply, "Servoder, five hundred lines to-

It was an echo of days of old. The words were few, but they were enough to recall the identity which Serudae was trying to make out, "Is it possible?" he exchanged, "Here is my old

tancher, Professor Bonette, in very flesh and blood." "Can't say much for the flesh," muttered Ben The old man had again fallen back into a torrid slumber. Bus Zoof conturned, "His sloen is setting

yet. Haven't I heard of men more dried up than he is, being brought all the way from Egypt in cases "You idiot!-those were mammies; they had been deed for agea."

Ben Zoof did not answer a word. He want on remaring a warm bed, into which he managed to remove his patient, who seen felt into a calm and natural sleep.

Too impatient to await the awakening of the hed to make. Servadas, the count, and the lieutenant, the "Acrelemy of Sciences" of the Colony, spent the whole of the remainder of the dev in starting and discussing the wildest conjectures about their situation. The hypothesis, to which they had now achad been formed by a fracture of the earth's surface, seemed to fell to the ground when they found that Professor Palmyrin Rosetto had associated the name of Gallia, not with their present home, but being abandoned, they were driven to make the form his companions that, although the professor

When the robbing bul here continued without a yet he was really exceedingly good-hearted; his bark was worse than his bite; and if suffered to take their course without observation, his outbreaks of till-imper seldom lasted long.

"We will certainly do our best to get on with bins," said the count. "He is no doubt the author of the papers, and we must hope that be will be

bins," said the count. "He is no doubt the author of the papers, and we must hope that be will be able to give us some valuable information." "Beyond a question the deciments have originated with him," asserted the Heutenstt. "Gallin was the word written at the tips of overy one of them, and

United the first section of the control of the cont

of permetrical ligitum, each section of cours of virity being regional is constitute profusion. Lieutennot Procope pointed out that these curves vidently had reference to the eithir of consists, which are warlensly parabolic, hyperfield, or elliptic if it were either of the first two, the const, other each appearing within the marge of terrectrial vision, would wants forever in the outrying regions

widon, would vanish for range on corrections vidon, would vanish forever in the outlying regions of space; if the last, it would be aure, sooner of later, after once periodic interval, to return.

From the priced facts appearance of his papers then, it ascends probable that the astronomes, during his seguents at Perconters, bad been developed the seguence of the contexts of the c

himself to the study of eccetary orthis; and as eachillations of this kind are ordinarily based upon the assumption that the critic is a parabola, it was rut utilizely that he had been endeavoring to transthe path of some particular conset.

"I wonder whether these calculations were made

before or after the lat of Jamuary; it makes all the difference," said Lieutenant Procepa. "We must bide our time and hear," rapited the

Servidae pased restlemby up and down. "I-would give a month of my life," be cried, impetuously, "for surey boar that the old fellow gross sinsping

"You might be making a had harpsin," said Procope, smiling. "Perhaps after all the center has had welfing to do with the convalident that we have

cope, unilling. "Perhaps after all the centet has had nothing to do with the committee that we have experienced." "Nonzement" exclusined the captain; "I know better than that, and so do you. Is it not as clear as darlight that the carth and this count have been

is cellition, and the result has been that our bittle world has been spill off and acris faying far into space?"

Count Transachoff and the licuteness booked at each other is allazed. "I do not deary your theory, and Precope after a widle." If it he served, irpose we must combine that the energous disc we observed on the night of the country of the observed on the night of the country of the

arrested at all by the attraction of the carth."

"Plausible enough," answered Count Timascheft;

"Plausible enough," answered Count Timascheft;

bere has given the name Gallis."

It still remained a parale to them all why the extroomer should apparently be interested in the comet so much more than in the new little weld in which their strange lot was cast.
"Can you explain this?" adved the count.
"There is a proposition for the count.

"New is no second of the reacher, and have including you that this philosopher in perturbat on of the meet eccentric beings in greation?"

"Buildes," added the liturioussi, "It is exceedingly likely that has closewarism but been going on for come considerable surred before the convision beautiful.

by hisely that his observation but been going on for some considerable period before the convulsion begpered."
Thus the general constitutes arrived at by the Gallian Assistmy of Statesco was this: That on the night of the Stat of December, a comet, erossing

Thus the general continuous afficient at my the gallian Austrany of Surrow was thin: Thus on the night of the fluid of Docomber, a correct, creasing and that the violence of the shock had appeared a hour fragment from the globe, which fragment from that date had been traverling the remote inter-chantary regions. Pulmyrin Rosatte would doubthose confirm their subtract of the phenomenon.

CHAPTER II

A HEVELATION

TO THE general population of the colony the

in the state of th

and, and not it settling attributionary tax occurses, and contribute a transfer of the occurs that the same, and contribute to the occurs that the same, and contribute to the separation at a state which every meant to the same and the same are contributed to transfer attention to the same of Galfa concept in the same and contribute and the same of Galfa concept in the same and the same are distinct to the same and the same are the same and the same are same and the sam

problem that they were all eager to active. When the our responsed in the westers beginn the profuser was still sessed askesp; and Box Zoot, who was emperately articles that the process of the standard sessed and the standard sessed and the standard sessed as the standard sessed as the standard sessed as the service as the entrance of the standard sessed as the entrance of the standard sessed as the entrance of the standard sessed as the entrance control is the standard sessed as the entrance of the standard sessed as the entrance of the standard sessed as the entrance of the standard sessed as the standard sesse

aien frem without.

"Confound it?" said Ben Zoof. "I must put a stop to this;" and he made his way towards the

"Who's there?" he creed, in no very amiable tone, PRINCES FRANCES

"Yea."

"Isano Hakkabut, Let me in: do, please, let me 'Oh, it is you, old Ashtaroth, is it? What do

you want? Cap't you get anybody to buy your "Nobody will pay me a proper price,

"Well, old Shimes, you won't find a customer have You had hetter be off." "No; but do, picaro-do, picase, let me in," sun-

plicated the Jew. "I want to speak to his Excellency,

"The covernor is in bad, and solven."

"Then walt where you are." And with this unbreputable rejoinder the orderly

natistat, when Servadae, who had been reused by the nound of vocces, called out, "What's the matter, "Oh, nothing, sir; only that hound of a Hakkabut

"Let him in them."

"Who are you?

"Let him in, I ray," repeated the contain, yer-However reluctantly, Ben Zoof obeyed. The deer Without voucheafing any renly, the captain backway to the central half, stopped, and turning so as

opportunity. Tell me what you want." "Oh, my lord, my lord," whited Issae, "you must

"News? What do you mean? "From rev little tartan vander. I now the word go out from the rook here on a journey, and I naw

it come back, and it brought a stranger; and I Doroht I thought I thought --"Well, you thought-what did you think?" "Why, that perhans the stranger had some from

He passed again, and gave a glance at the captate

"Ask him what? Speak out, man," "Ask him if he brings any tilings of Europe," Servadas shrupped his shoulders in contempt and turned away. Here was a man who had been real dent three months in Gallia, a living witness to all

bergalas with European traders was at an and The orderly, however, who had littened with much amusement, was by no means dissectined for the conversation to be continued. "Are you satisfed "Jan't it so? Am I not right? Didn't a stranger

arrive here last night?" inquired the Jow.

"Proper the Bolsovie Inles" "The Raleoric Islant" school Isaac. "Fine quarters for trade! Hardly twenty bearing

from Spain! He must have brought news from "Wall, old Manasseh, what if he has?" "I should like to see him."

The Jew sided close up to Ben Zood, and laying his hand on his arre sold to a less and to innuting

a few reals if you would let use talk to this But as if he thought he was making too liberal

on offer, he added, "Only it must be at once, "He is too tired; he is ween out; he is fast aslam," answered Ben Zoof. "But I would not you to wake him."

The contain had overheard the tenor of the conyou make the least attempt to distarb our valler.

I shall have you turned outside that deep imme-"No offence, my lord, I home," starrengered out the

"Silence !" abouted Servador The old man hung his head, abached

"I will tell you what," said Servadae ofter a heled interval; "I will give you leave to hear what this afrances has to tell as seen as he is able to tell us

The Jaw looked perplexed "Yer," said Servaise; "when we hear his story, "And I hope it will be to your liking, old Enchiel!"

sided Ben Zoof in a verce of fromy, They had none of them lone to wait, for within a few minutes Rosette's poervish voice was heard calling, "Joseph! Joseph!"

The professor did not open his eyes, and appeared to be alumbering on, but very shortly afterwards called out again, "Joseph! Confound the fellow! where is he?" It was evident that he was held dresoning about a former servent now far away on the ancient globe, "Where's my blackboard, Joseph?"

the orderly's face. "Are was Joseph ?" he asked perturbable gravity.

"Then get me my coffee, and he quick shout it." Bun Zeof left to go into the kitchen, and Servadas argresshed the professor in order to assist him to rising to a sitting posture.

"Do you recognize your quentum pupil, pro-"Ab. yes, yes; you are Servedae," recited Bo-

sette. "It is twoive years or more since I awar you; I hope you have improved." "Quite a reformed character, elr, I assure yeu,"

"Well, that's as it should be; that's right," said the astronomer with fussy importance. me have my coffee," he added immatiently: "I cannot collect my thoughts without my coffee." Fortunately, Ben Zoof appeared with a great cun.

OFF ON A COMET "Where, then," cried Servader eagerly, "where

hot and strong. After draining it with much annevert reliab the uniferzor out of hed walked into the common hall mound which he shared with a pre-perguised air, and proceeded to next himself in of the Dobrana had sompled. Then, in a voice full of satisfaction, which involuntarily recalled the exfirst of the mysterious documents that had been recolved he hares out "Well presierren what do you

There was no time for arrows to make a renh

"Who is that?" asked the startled professor; and

he frowned, and made a centure of resugnance.

beneath you, give me some tidium of Europe!" "Europe" shouted the professor, springing from "I want to not there!" screeched the Jows and in

suite of every exertion to got him away, he ching most tenecompaly to the professor's chair, and again implored for news of Barrens Routte made no immediate rentr. After a way

ment or two of reflection, be turned to Servadao and asked him whether it was not the middle

"It is the twentieth," answered the captain.

with the greatest deliberation-'to-day we are gust three millions of leagues away from Europe." "You seem here," continued the professor, "to

"How far we are ignorant," rejtined Servadae, "I carnot tell. But I will tell you all that we do know, and all that we bare surmised." And as briefly so be could, be related all that had happened since the memorable night of the thirty-first of how the Delowns had made her voyage; how they old continent at Tania, Sardinia, Gibraltar, and premous documents had been received; and, finally,

doned for their recent energies at Nint's Hipe. The satronomer had hardly patience to hear him "Our surposition," the captain realled, "in this,

collision with a planet to which you appear to have "Estirg than that!" eried Rosette, starting to

"How? Why? What do you mean?" cried the "You are recreet to a certain degree," continued 35.6 seconds after two o'clock on the moraing of

the first of January there was a collision; my correct graced the earth; and the bits of the earth which They were all fairly bewildered.

"Yes are on rev comet, on Gallin shadd!" And the professor essed around him with a ner-

THE PROPESSOR'S EXPERSENCES

7 RS, my comet !" repeated the professor, and

broked around him with a defined also though he could not out rid of the impression that

were intruders upon his own proper domain. But for a considerable while, Servicine, the court, and the Besterant remained ellent and suck in thought. How then, of last was the providely of the enigms they had been so long endeavoring to solves both the hypotheses they had formed in suc-

cession had now to give way before the announce-ment of the real truth. The first summetition, that some accidental modification, and the conjecture that replaced it, normaly that a cortain parties of the turnstrial orbers had been splittered off and carried into space. had both now to yield to the an unknown comet, which had caught up some scatthem for away into sidereal regions. Unfolded lay the past and the present before them; but this only Could the professor throw any light upon that?

Meanwhile Rowtte assumed a nottness profesparty to be ceremonlously introduced to him. Quite willing to humor the vanity of the countrie little man, Servadac proceeded to go through the ex-

"Allow me to present to you my excellent friend, the Court Timaschoff." be said. "You are very welcome," said Beastle, howing to the count with a smile of condescension.

edge your courtoous reception," gravely responded Servadae could not quite canceal his ammement at the count's irony, but continued, "This is Lieu-

taxant Process, the officer in command of the "His racht has conveyed us right around Gallie,"

added the contain. "Around Gallia?" cogerly exclaimed the profenner.

"Yes, entirely around it," answered Servadae, and without allowing time for reply, proceeded, this is my orderly, Ben Zoof." "Alds-fo-camp to his Excellency the Governor

maintain his master's honor as well as his own. Resette erarcely bent his head, The rest of the population of the Hive were all presented in succession; the Spanian sailors, the Spaniards, young Pablo, and little Nins, on whom the professor, evidently no lever of children, glared flarcely through his formifiable apertacles. Issue

nerosty through his formidable speciacles. Issue Hakkahut, after his introduction, begged to be allowed to sak one question.
"How soon may we hope to get hank?" he in-

"On book!" rajoined Recette, sharply: "who take of getting tack? We have harby sarried spit." Scoting that the producers was included to garger, Capital Enranks affording save a row turn to the conversation by asking him whother he would gratify them by relating his own resear on perimens. The astronomer second phased with the probability and in once conversed a vertices and offerences. The astronomer second phased with the probability and in once conversed a vertices and offerences.

sweing generaty presents the nam features.
The French forermont, help darkins of veriThe French forermont, help darkins of verities sweinline of Ferin, sprended a selectific contraction of Ferin, sprended a selectific condecorate forer properties of the selectific conposition of Ferin sprended as a selectific conposition of Ferin of the selection of the selection of the
previous selection at the slight, the prediscor recents, and declaring that these were incurrence
control of the selection of the selection of the
previous generation of the selection of the
selection of the selection of the selection of the
selection of the selection of the selection of the
selection of the selection of the selection of the
selection of the select

Associately, hereing Paris for the Bilesse's Biles, the placed also belowated on the highest point of the placed also belowated on the highest point of Permatters, and accompanied as he was only by the processing of the processing of the processing of the processing of the contract of the processing of a forcer content and dispetched has to a high pask on the coast of Spain, where he had to a superiorized a kelotrary and where he had to superiorized a kelotrary and there have been as the processing of the best parts of the content of the best parts of the content of the best parts of the best parts

which would immercially his name.
The task he had undertaken formated the jut most reptions. Night after night, in order to fix the says of his triangle, he had be ligner on the world for the assistant's lignosticity, but he did not frozen that his processors, Arrays and Ros, had had to wait satyrone days for a similar purpose. What related the work we the dause for which, as mentioned before, at that time exceeded not only that part of Burpey, but almost the entire world.

though before, at that time covelaged act only that port of Europe, but almost the earlie weekf.

News fading to turn to the best advantage the test intervals when the mist lifted a little, the arthronome would at the same time cast an inquiring gluone at the firmanument, as he was greatly beterated in the revision of the chart of the learness,

In the region configuous to the constellation Gemini.

To the naled eye this constellation consists of only six stars, but through a telescope ten inches in diameter, as many as six thousand are visible. Resolue, however, dit not possess a telescope of this magnitude, and was obliged to content himself with

the good but comparatively amall, instrument by

On one of these consistent, whilst carriedly gauging the recession of Germit, he coupled a bright spack which was unsegletered in the chart, and the state of this he took free a small state that of easiered but a surfaced in the catalogue. But the observation of a few separate injusts accor under transificat that the star was rapidly changing its position with regard to the adjucent stars, and the autorocom's beautbeaut to keep at the thought that the recover of the discovery of a new sharts would be associated.

with his name.

Reflecting his attention, be soon satisfied himReflecting his attention, be soon satisfied himReflecting his attention, be soon satisfied himreflecting that his actual his place of the displacement rather forced him to the comjecture lash it must be a come, and this epirions
was soon strengthessed by the appearance of a come,
and subsequently confirmed, as the body approached
and subsequently confirmed, as the body approached

the sun, by the development of a tall.

A court! The discovery was fast to all further progress in triangulation. However conselectionly the assistant on the Spenish coast might book to the Saidling of the beavor, Rocette had not a ginne to spore for that direction to had not eyes except for the one object of his attice, no thought spart from

A const! No time must be lost in calculating its elements.

Now, in order to calculate the elements of a count, it is always decemed the suffect made of pro-

colonia is a surrounced to be a possible. Order, surrily, certain are to entitle to be a possible. Order surrily, certain are completions of their purchase, as surfly, certain the surrounced as a purchase to the surrounced as a purchase to nearly an ellipse, but with its acts indefinite by predised, for some sheet partition of its purhase; the order may be indifferently confident duther one of the purchase when the purchase was the prediserved of the surfly and the surfly and the surfly and the surrounced to th

points to determine the circumference, so, in anectationing the elemants of a conect, three different positions must be chosened before what astronomore all the "opherectes" can be established.

But Professor Resette did not contant binnesis

with three positions; taking advantage of overy rift in the fee he made ten, trenty, there choeves the best in right accusates and in estimators, and succeeded in working out with the most winner accuracy the five elements of the count which was widently advanting with assembling repidity towards the outh.

These elements were:
L. Yhe inclination of the plane of the cometary
orbit to the plane of the editate, an angle which

is generally considerable; but in this case the planas were proved to coincide.

2. The position of the ascending node, or the

 Yate position of the ascending node, or the point where the count receased the interestrial orbit.
 These two elements being obtained, the position in space of the count's orbit was determined.
 The direction of the soils major of the orbit.

which was found by estrubiting the longitude of the comet's perihelion.

4. The perihelion distance from the sun, which octifed the precise form of the numbels.

Rosette thus found himself able to calculate the calling it Palmyra or Risette, after his own name.

he resolved that it should be known as Golife. His next business was to draw up a formal report. Not only did he at once recognize that a colnaw that it was fugy(table, and that it must happen

shock could burdly fall to be violent.

To say that he was cloted at the prospect was far below the truth; his delight amounted almost the selitude of Formenters in sheer fright; but, without correspondenting a word of his startling diswhere; and the ignorance of the world so to the need that threatened it exerted the name that would have philosopher of Fermenters in sele possession of the great secret. He show to his nest with the greater

approaches to the partit of Alegria and as it had a The shock came, and with it the rought already from his servant Joseph, and when, after a lone

the professor save with sundry repetitions and secred by no means justified by the noticet and

must tell you scorething more. Important changes that I was still upon the earth. No! the earth, attanded by her meen, continued to rotate along her proper orbit. But we, pentlersen, have nothing to

we might all have been crushed to death, or the cornet might have remained in adhesion to the had the netlefaction of making this marvelous oncurreton through untraversed selar regions. No.

have uset with some resistance.

"Dehare?" said Boastie disdainfully "A malehill like Montmarire would have been ground to "Male boll" ovelsimed Bee Toof stone to the

culck. "I can tell you it would have cought up your bit of a corret and worn it like a feather in a con!" The professor leoked angry, and Servadar having imposed afferce ween his orderly, explained the Montmortee. Always absilient to his master. Her forwive the slight that had been cost ween his be-

astronamer had been able to continue has observed Gallia's path through space to make him correctent to determine, as hast approximately, the period of and contien as he could Lieutenant Processe on

information on this point. "Before the shock sir," answered the professor. "I had conclusively demonstrated the path of the errort; but, in consequence of the modification which that shock has entailed more yet county court. I have been compelled to recommence my calculations

The Restaurant looked disappointed. "Although the orbit of the earth was mailtered," continued the professor, "the result of the collision was the projection of the comet into a new orbit

"And may I ask," said Procupe, deferentially

"Then perhaps you know---"I know this, sir, that at 47 minutes, 35.6 sec-

onds after two seleck on the morning of the lat of January last, Gallis, in passing its ascerding node, come in contact with the earth; that on the it reached its peribelion on the 15th; that it recrossed the orbit of Venus; that on the 1st of February it passed its descending node; on the 13th crossed the orbit of Mars; sutered the some of the telescopic planets on the 10th of March, and attracting Norma, carried it off as a satellite."

"We are strendy sequested with well nigh all these extraordinary facts; many of them, moreover, we loarned from documents which we picked up, and which, although unsigned, we cannot entertain Professor Resette drew himself up proudly and sold: "Of course they originated with me. I sent

there off by bundreds. From whom else could they come?" "From no one had vaccoolf, agriculty," relained

the court, with grave politeress, Hitherto the conversation had thrown no light

was disposed apparently to evade, or at least to postpone, the subject. When Lieutenant Process was press the little second too far, interrupted him hy

having suffered so little from such a formidable "Afraid an? Why afraid of such a recetion?" "Because we are doing encoodingly well as we "I account for it in this way " answord Deputter "Because we are trong encountry and as no "the earth was traveling at the rate of \$8,000 ground, by way of emphasis, and added, "If I had as though a train, rushing along at a greed of

countered some obstacle. The nucleus of the cornet. would do fired with that velocity class to a name of often. It has owned the earth without cracking

"It is resulble you may be right," said Servedae

"Right! of course I am right!" realist the sname

might have coused are beyond reckening. Perhans," he added, with a arefle, "your Montreortre

"Rivi" shouted Ben Zoof, cuito mable to bear the

"Quiet, Ben Zoof!" sald Servadac storaly. Portunately for the soke of neace, Isaac Hokka, ness, implered the professor to tell him when they monid all he hark sosie upon the earth. "Are you in a great hurry !" asked the needlessor

The Jew was about to speak again, when Captain Serendar interposed: "Allow me to say that, in

"Did you imply that the orbit has ceased to be a

"Is it then an hyperboln? and are we to be can ried on far and away into remote distance, and

"I did not say an hyperbols."

"Then it must be an ollingel"

"And does its plane coincide with the plane of the

"Then it want he a periodic comet?"

Rervolve involuntarily raised a ringing shout of "Yes," continued the professor, "Gallia is a nertodic comet, and allowing for the perturbations to

"You ween that in two wars after the first shock, Callle will most the earth at the same point at

A REVISED CALENDAR LL previous hypotheses were now forgotten

In the presence of the one grant the the the stands ofter the shock was the retreating easth. to the proximity of which the one high tide they As to the fulfillment of the professor's predic-

The next day or two were spent to providing for the accommodation of the newcorner. Fortunately

little or no regard to the ingenuity with which all the internal arrangements of Nina's Rive had been former tator, Servedge proposed to put the most but the professor resolutely declined to pecupy It saying that what he required was a small chamber,

tury where he might continue his studies without before long they were lucky enough to find, about a bundred feet above the central grotto, a small renave or case believed, as it were, in the mountain contained room exough for a bed, a table, an armchair, a chest of drawers, and, what was of still

In these retired quarters the astronomer took up

his abods. It was on all hands acknowledged to be his observations by night, and very rarely made his appearance amount the rest of the little com-

The gold now became very intense, the thermometer registering 50° C. below zero. The mercury, that are over and again to be observed in variable .

This steady sinking of the mercury was accomthe very air seemed to be convenied; no particle of chool; neither were there any of the damp mists or dry fogs which so often extend over the polar regious of the earth; the sky was always clear; the sun abone by day and the sizes by night without causing any perceptible difference in the temperature.

ing any prompible difference in the temperature, where the process of the discover is the temperature of the discover that the control of the discover that gives fault to Archie explorate or the discover that gives fault to Archie explorate proteins and the discover that gives fault to Archie explorate or the discovery of the d

herew its righer.

Stevenbardung that, the extension becomes of Stevenbardung that, the section because the Stevenbardung that is settle population found that they were able to more about it the open als with they were able to more about it the open als with the section of th

printer, Pully were at his companion able, ready we have recording to the control of the control

to his own personal and pecuality indvendage; that no—the datire of gain was too theroughly ingration into his hard nature over the nearthgraph of the person of the person of the person of the protection of a Franch (chore, who, scoop under the Bast urgent necessity, would not person thin to be modested in retaining this property, he determined to walt for zone energency to arise which should enable him to see his present alumin for

On the one head, the Jow took it into account that although the chances of returning to the earth night he remain, yet from what he had been from the prefessor he could ack believe that they were improbable; on the other, he know that a considerate some of money, in English and Kaminet of the Illitte osing, and this, although valueless may rough be worth as much as over if the proper of Gallin leto his procession, and to do this he man sell his groots. But he would not sell them yet; there might come a time when for many articles the supply would not be equal to the demand; that would be the time for him; by waiting he readoned he should be able to transact none laccultive business.

Such in his solitude were old Issae's cogitation whilst the universal population of Nina's Hire we congretulating themselves upon being rai of it adopts presence.

odorus protecco.
As airwely stated in the message brought by the sarrier pigeon, the dilutence traveled by Golfs in the sarrier pigeon, the dilutence traveled by Golfs in travels the was 11,000,960 leggue frest the san. A diagram representing the elliptical certif of the phorat, accompanied by an ophomeric mode out in minute detail, had been drawn out by the professor.

The process of the processor of the processor of the san weeps in the processor of the proce

tance described in the twenty-four months of the Gallian year, the twelve former devisors, according to Kapber's law, gradually distinishing in length as they approached the point denoting the spieline and increasing as they rearred the peribeline. If was on the 18th of May that Rosette exhibited thus result of his labors in Servador the continuous

that result of his labors to forwards, the sense, he could not be a sense he could result of the forward with the housest he could result of the forwards with the head to be a sense he could result of the forwards of the forwards when the forwards he could be a sense he could be a sens

heave her about 149,000,000 leagues distant from the aun,"
"Just so," replied the professor.

"Then we have already peased the sens of the telescopic planets, have we not?" saked the ount. "Can you not use your eyes?" saked the ount. teathy. "If you will look you will see the some marked dearly crough upon the map," Without noticing the interpretation. Severales con-

tinued his own remarks, "The eccent then, I are is to reach its aphelion on the 10th of January, as actly a twolvementh after passing its perficien." A twolvementh! Not a Gallian twolvementh!

exclaimed Rosette,

Servadae bedoed bewildered, Lieutenant Procepe
could not suppress a smile,

"What are you kughing at?" demanded the ten-

a "What are you laughing st?" demanded the pron feaser, turning round upon him angrily.
"Nothing, air; only it amuses me to see how you

"I want to be logical, that's all."
"By all manner of means, my dear professor, let

AMAZING STORIES "Well, then, listen to me," resumed the preference, show of existence was an accomband which from the

"Well, then, listen to me," resumed the professor, stilly. "I presume you are taking it for granted that the Gellian year—by which I mean the time in which Gellian makes see revolution round the sun is equal in length to two terrastrial years."

as equal in length to two terrestrial years."

They signified their easent.

"And that year, like every other year, ought to be
divided into twelve months."

"Yes, cortainly, if you wish it," said the centers.

acquisering.
"If I wish it?" exclaimed Rosette. "Nothing of
the nort! Of course a year must have twelve

"Of course," said the captain.

"And how many days will make a month?" saked

"And how many days will make a month?" asked the prefessor.
"I suppose sixty or sixty-two, as the case may be, The days now are only half as long as they used to

The days new are only half as long as they need to be," answered the captain.

"Berweise, don't be thoughtless!" cried Rosette, with all the petulant impatience of the old pedaports. "If the days are only half as long as they prope."

gogue. "If the days are only half as long as they were, sixty of them cannot make up a twelfth part of Gallia's year—cannot be a month." "I surrows not," realised the confused cartain.

"I suppose not," replied the confused captain,
"Do you not see, then," continued the sattenamer,
"that if a Gallian mouth is twice as long as a terrestrial mouth, and a Gallian day is only half as

restrial month, and a Gallian day is only half as long as a terrestrial day, there must be a hundred and twenty days in every month?"
"No doubt you are right, professor," said Count

Timescheff; "but do you not think that the use of a new calendar such as this would practically be very troublescon?"
"Not a full not at all I do not intend to use any

After pondering for a few moments, the captain spake again. "According to this new calendar, it spake again. "According to this new calendar, it

inn't the middle of May at all; it must now be some time in March."

"Yes," said the professor, "to-day is the 26th of March. It is the 26th day of the Gellina year, It

March, It is the 250th day of the Gallian year, it corresponds with the 153d day of the tarrestrial year. You are quite correct, it is the 25th of March."
"Stranger!" muitared Serradas.

"And a month, a terrestrial month, thirty old does, sixty new days hence, it will be the fifth of March."
"He, ha!" roured the captain; "this is logic with

a venguated."

The old professor had an undefined consciousness
that his former pupil was lengthing at him each as
it was greening late, he made an excuse that he had
no more leaure. The voitters accordingly cultied

the observatory. It was the revised calendar was left to the professor's sole use, and the colony was fairly passied whatever be referred to such unheard of dates as the 47th of April or the 118th of May.

of dates as the 47th of Agril or the 11th of May, According to the old calendar, June had now acrevel; and by the professor's tables (folial attrias further above 11st orthi, and would have attained; a distance of 105,000,000 languase from the sun. The thermiscopies continued to fall, the atmosphere remained clear as hereofores. The population perturns, and almost the only thing that hardes the mosttrue; and almost the only thing that hardes the mostbusiceing, nervous, little professer, when some mades fancy induced him to throw ande his astronomical studies for a time, and pay a visit to the comman hall. His arrival there was generally halled as the precursor of a little season of cartiement. Sumchase or other the conversation would

ture salilisis between the comet and the earth, and in the same degree as the was a matter of carguine anticipation to Captain Bervadue and his friends, it was a matter of aversim to the satternoonial enthesistant, who had no desire to quit his present quarters in a sphere which, bring of his present quarters in a sphere which, bring of his great discovery. As result hardly have comet for

more if it had been ed his own creation. The interriew would often terminate in a scene of coasiderable animation.

On the 27th of June (old calendar) the professer burst like a consequently little the covered ball.

where they were all contentions into the central half, where they were all contentions, and without a were of substation or of preface, accorded the Businesset in the way in which in earlier days he had been accusioned to speek to an 5th school-boy. "Now, liquitessent no evacious! so shuffing! Tell me, have you so have you not circumnavigated Guillat"

you or have you not circumnavigated Gallia?"

The Hentenant draw hinself up stiffly, "Evasional thufflings! I am not accustomed, afr—" be began in a tone swidenzing no little recentment; but catching a hint from the count he subdued has veloa, and strent raid. "We have."

"And may I sak," continued the professor, quite unawate of his previous discourtesy, "whether, when you made your voyage, you took any account of distracted?"

"As a representative as I could," profest the Mon.

tanni; "I did what I could by log and compass. I was unable to take the altitude of sun or star."
"At what result did you arrive? What is the

"I estimate the total circumfarence of the equator to be about 1,440 mfks."
"Ah!" said the professor, more than half speaking to himself, "a circumference of 1,400 miles

would give a diameter of about 650 miles. That would be approximately about one-elekteenth of the diameter of the surful. Raising his voice, he continued, "Gentlemen, order to complete my account of my cornet Gallis, I

orear to compare my account or my count tailin, I require to know its area, its mass, its volume, its density, its specific gravity."

"Since we know the diameter," remarked the liqu-

tenant, "there can be no difficulty in finding its surface and its volume."
"And did I say there was any difficulty?" asked the preference, ferreely. "I have been able to recken

the professor, hereely. "I have been able to recker that ever since I was born." "Cock-a-deedle-doo?" cried Ben Zoof, delighted at

"Conse-needle-mor" cried see Zoof, delighted at any opportunity to pay off his old gradge.

The professor leoked at him, but did not worshafs a word. Addressing the captain, he mid, "Now,

With more submission than when he was a school-buy, the captain sat down and endeavoured to

recall the proper formula.

"The surface of a sphere? Multiply circumference by diameter."

"Bight!" cried Rosette: "but it quickt to be dens by this time. "Circumference, 1.400; diameter, 450; area of sorface, 630,000," read the centain "True." replied Resetts, "810,000 square miles;

inst 292 times less than that of the earth." "Pretty little comet! nice little comet!" muttered The estenoymer hit his lin, sported, and east at

"Now Captain Servadae," said the professor

"take your pen again, and find me the volume of

"Onick, swick?" oried the professor, impatie "agrely yeg have not forgotten how to find the volume of a sphere?" "A moment's breathing time, please," "Breathing time, indeed! A mathematician

should not went breathing time! Come, multiply Captain Servadae applied himself to his task while the in-standers waited, with some difficulty sup-

pressing their inclination to laugh. There was a

"Just about one foodbenourdth that of the earth" observed the Bentemant. "Nice little comet! nextly little comet!" said

The professor secwied at him, and was manisions of his comet pointed out in so disparacing a from the earth he supposed it to be about as con-

would require a good telescope to see it "He, ha!" langhed the orderly, aloud: "charming little comet | so pretty; and so modest?" Hen Zoof laughed the more, and was on the point of repealing his sattrical comments, when a stern order from the captain made him held his torque. tive about his comet as the orderly was about Mont-

martre, and if the contention between the two had been allowed to go on unchecked, it is impossible to any what serious quarrel might not have arisen. reatored, he said, "Thus contiemes, the dismeter, the surface, the volume of my second are sattled; but there is more to be done. I shall not be patie-

"A laborious problem/" remarked Count Time-

"Laborious or not, it has to be accomplished "World it not be of some assistance, if we know of what unbetance it is correspond?" saked the

"That is of no mement at all," replied the professor: "the problem is independent of it."

"You renet understand, however," said Reactio, "Phat there are various realiminary establishes to be made; very will have to wait till they are "As long as you please," said the count.
"No hours at all," observed the cantain, who was

not in the least impolared to controve his weether "Ther, postloner," said the astronomer, "with your leave we will for this purpose make an ap-

pointment a few weeks hungs. What do you say Wribert noticing the general amile which the

CHAPTER V

TNDER the still directiching influence of the rance Godin continued its inter-physicians lite, which performed its fortnightly revolutions

Meanwhole, the question beyond all others imcalculations correct, and was there a sound foundstouch the earth? But whatever might be then

doubts or anxieties, they were fain to keen all them The rest of the community by no means shared in their uneasiness. Negrete and his fellow-countrydifference. Happier and better provided for than they had over been in their lives, at did not give

carelled out their favorite songs, just as if they Happicet of all were Pable and Nina. Racing through the galleries of the Hive, clambering over

Nor was their recreation allowed to interfere with their studies. Captain Servadac, who in commer with the count really illered them both, econograd that the responsibilities of a parent in some degree had developed upon him, and took great care in

Indukred and loved by all, it was little wonder

o erecent

100 AMAZINO STORIES

"They had now a home in which they
had orbitage to destre.

"There you no fother or mether?" asked Pablo,
one sky, "No," sha suswered.

"And the very kiterron, weight, you used would
"And the very kiterron, weight, you used would
make the property of the company of the property of the pr

"The same in the same of the logs of a used to run along the same of the same of the difference when I was in Spatian" of the same of the difference when I was in Spatian" of used in look after great as Mahkhara," and Inlan, "and this are the same hope of the same of th

love. I have you for a kurshir, and curryindy is so blad. I am sirabile they will gold up, Albeld, "the child. I am sirabile they will gold up, Albeld," the child. A milling. I you are loop good to be spoiled, and brail, in with you, you make so good to be," and brail, provely.

Albeld one worried. Boaring the march Gallitz

the surface of Gallia. Thus I shall serve at the day have been controlled to the controlled to

ON Improv. the distance from the saw at the ord the graph, the distance from the saw at the ord thing 1720/0000 longs, about four end a half below and a tereb allegame, and the property of the same proof as the earth, which traverses the callett assess proof as the earth, which traverses the callett of a rate of 20,0000 longs, as manth, or 23,000 to the callett of the callett of

The professor stemped with vexation.

brows, and eyelashes, until their faces, covered with

In the time the 6th of April, according to the revised Gallina scientific, descend in in purchand in fulfillment of the professor's appointment, in site was oblivered to Servadue to say that he was ready, and hoped that day to commone operations for all the servant and hoped that day to commone operations for all the servant and the

A pain of the greater interact to Capitals Stressed and Mercey 1: and Me

were some johned by Bienetic, who assumed to be in history good tempor. "I propose in-day to see the source of the

from this attractive force we know, by the increases well do it well for you if you will give him the peroferer law measuring from, must of course he conciderably has been that the qualities of the matter; and thricky, its density or quantity of matter is a proper measure of length.

mit of the volume. We will goed greek prehimms, if

Bon Zeef was sent aff to reassak the stereo for

Real Zeef, who had just entered the ball, cought

the received in the sent to the sen

weed, west out again and was absent for comes indicate. When the trigrand, be said in the weigh this course of years. I suppress you want to weigh this course of years, I suppress you want to weigh this course of years, I suppress you want to come find a pair a shadow, but I have been to be laid, and I I. The rest of the pairty followed, and were second colds intellectually, "you work each them are," but in the come air upon the rocks that everlang the said in the common of the common of the terms are.

consider a pair anywhere. And while more, "be in the open air upon the rocks that everbuag the air addition intellectually," you work feet them anywhere."

A frown came over the professor's countestone.

Servades any it, and gare his criefty a sign that project a wider soil mode their way towards the little cross to be about death curricy from his heatarity.

The temperature was low frowed receives ex-

he should dealst criticaly from his lantarity.

"I require, goutherms," recumbed Rosette, "first between the state of all to know by how much the weight of a kibbourge and the state of all to know by how much this weight of a kibbourge and her differs from the weight sport the service between the weight of the state of it without much actual suffering. Their breath issues its vaper, which was at one concessed to the state of the s

many whalers.

according many solding coloding many també hadingone It was sucht c'clock in the murning. The arm was rapidly approaching the south; but its disc

proper warreth and reference. The volume to its From this hole projected the tube of an astronomer's

See and land asomed Nepded into one dreamy or as the result of their skuting expeditions; the

complicated as the figures traced by aquatic insects upon the serfece of a root. Acress the cureter of a mile level around that lay between the mountain and the creek, a series

On approaching the cresk, Lieutenaut Procone

"What a strange phenomenon?" couldined the

"It makes me very uneasy," rejoined the lieutenant; "in shallow places like this, as the crust of

"But surely this process of comerlation must have

"But who can say what that limit will be? Reof cold," replied Procone. "Indeed, I hope not!" exclaimed the professors "where would be the use of our traveling 200,000,

010 learnes from the sun, if we are only to ex-"Fortunately for us, however, professor," said

the lieutenant, with a smile, "the terrograture of "And as long as there is no wind," added Servedae, "we may pass comfeetably through the winter.

without a single attack of catarrh." Lieutenest Proceps proceeded to impart to the new deposits of ice, the vessel would be elevated to there it must be exposed to a coloraity similar to

There was no time now for concerting measures off-hand to prevent the disaster, for the other memthe Hexas by heard in her ley traumels. A flight of steas, recently hown by Hakkahot homosif, gave

A thin curl of him amoke issued from the conner

"Hi! old Neborhadnessar, where are you?" chouted Ben Zoof, at the full strength of his lungs. At the sound of his voice, the cable door operad. and the Jow's head and shoulders protruded onto the dock

MONEY AT A PREMIUM

7 HO'S there? I have nothing here for anyone. Go away;" Such was the inhespit-able greeting with which Isaac Hakkahut received his visitors

"Hakkabut! do you take us for thieven?" asked "Oh, was Excellency, my leed, I did not know that it was you," whined the Jew, but without

emerging way farther from his cable "Now, old Hakkshut, come out of your shall! he gives you the hanor of his company," cried Ben Zoof, who by this time had elambared up on the

After emolderable hesitation, but still keeping his hold men the caldradeer, the Jany made on his mird to step outside. "What do you want?" he in-

"I want a word with you," said Servadas, "but I do not want to stand talking out here in the cold."

mount the stern. The Low trembied from band to foot, "But I cannot let you into my cehin. I am

a poor man; I have nothing to give you," he mountd The is beginning his chapter of iconstitutions over agole. But stending out here will never do. Old of the way, old Hakkshut, I say! out of the way!"

taken the pains to explain to the owner of the

hands upon his property, and that if the time abould ever come that his curpe was in requisition for the his goods, the same as he would in Europe,

"Europe, indeed!" muttered the Jew maliciously between his tooth "Recovery prices will not do for me. I must have Gallian neiges-and of my own

So laws a portion of the money had been seen printed to the curren that the space reserved for deprive me of one of the most indimensable of my

corner of the compartment stood a groull arm atomtwo or three stools and a rickety deal table, together farniture which was worthy of its proprietor.

On entering the calon Ren Zeof's first proceeding was to throw on the fire a liberal supply of mala. as approit to such reckless expenditure of his fust. The perishing temperature of the cabin, however, and by a little skillful munipulation he seen suc-

The visitors having taken what seats they could Hakkubat about the door and like a refrence

"Listen," said Seresdae; "we have come to sale Irrogalaing that at least half his navorate was to

nothing to spare; but Servedec, without heeding his complainings, went on: "We are not wing to Hakkabut looked keenly into the captain's face.

"We have only come to know whether you can lend us a suring-belonce." So far from abording any symptom of relief, the so if he had been asked for some thousand france;

"Yes!" echoed the urefessor, impatiently: "a

"Haven't yes one?" saled Servidae "To be sure he han!" said Ben Zeof Old Issac stammered and stuttered, but at last confessed that perhaps there might be one amonest

"Then, aurely, you will not object to lend it to "Daly for one day" added the renferen The Jow starsmored again, and began to object,

The cold, you know, the cold may do injury to the weigh something very heavy."

"Why, old Rohralm, do you numpeco we are going to weigh a mountain with 187" said Ben Zoof. "Better than that?" gried out the professor.

triumphently; "we are going to weigh Gallia with it-my const." "Mareiful Heaven!" shricked Isaac, felaning con-

Servades know well enough that the Jow was holdmuch lighter everything had hecome) could not pos-

The Jew still splattered, and moaned, and besi-"Well, then," said Servedee, "If you do not like to

Hakkabut. I see that you are not durnesed either to lend or to sell your balance. What do not our to The Jew's even turbilited with a satisfaction that he was mable to conreal. "But what accounty would you give? The instrument to very valuable:" and he looked more curaing than ever

"What is it worth? If it is worth twenty frames, I will leave a deposit of a hundred. Will that satisfie He shock his hand doubtfully. "It is very little:

Issue fairly shricked aloud. "God of Issuell" be

changes without my spring-balance-my solitary

but Servadas, rother armsed than otherwise, de-

The orderly wondered how his master could refrein from strangling the old miner men the arct;

is the only apring belonce in all this new world of curs; it is worth more, much more. If I take your

"Ob, it is dart cheep; but never mind, for one look around, went out of the cabin.

"Detectable old wester!" realied the rount, full Hardly a mirete clarged before the Jew was back

again, carrying his precious instrument with ontentations care. It was of an ordinary kind. A spring balance, fitted with a hoak, hald the article to be weighed; a pointer, revolving on a disc, indioated the wright of the article. Professor Rosette was manifestly right in asserting that such a machine would register results onits independently of it would have registered a kilogram as a kilogram; here it recorded a different value alterether, as the

result of the altered force of gravity. Gold coinney to the worth of one hundred and clutched at the maney with unwistakable correness. The halonge was committed to the leaving of Bes Zeef, and the visitors prepared to quit the

All of area it accorded to the preferror that the balance would be absolutely uncleas to him, prices be more of the unit of the soil of Gallis, which he pro-

mand to weigh. "Sarrething more you result lead "I must have a measure, and I reast have at

"I have neither of them," suswered Ispan, "I

have neither. I am sorry; I am very sorry." And this time the old Jew spoke the truth. He would of husiness upon terms as advantageous as the Palmyrin Rosetto ocratched his head in pur-When the old Jaw had amon recovered himself.

Back again, down the ladder, arramhled the little

professor, and before the Jew was aware of his overcoal. "Some of your money! I must have

"Money!" gasped Hakkabut; "I have no money." He was role with fright, and burdly knew what he

"Falsehood!" roared Rosotto. "Do you think I "Heave of money! French money! Free-france

The captain and his friends, who had returned to the cable looked on with minded ammenment and

"Thay are mine!" shrieked Hakkahut, "No but I want!" nersisted the professor again.

"My dear professor," he said, smiller, "allow me to "Ah, your Excellency," mounted the agitated Jew.

"Silence!" cried the captain.

"I must have more than that," the professor rocttinged, "I want ten two-franc pieces, and twenty

"Let me see," said Servaine, "how much is that "Count. may I ask you," continued Serveduc, "to

"Lean!" cried the Jew, "do you mean only a

yures centained only pency money, begred to place

"No paper, no paper!" exclaimed Issue. "Paper "About as much as affert," coolly reterted the

"I am a peer man," began the Jew. "Now, Hakkahut, stop these miserable lementstions of voters, core for all. Hard us over two hun-

Isage beggs to yell with all his might: "Thiowas!

In a moment Ben Zoof's hand was clusted tightly

Nothing scold averages the Jew's service to make another good bargain. He began: "Money is

scarce, very scarce, yed know-"
"No more of this?" shouted Servadae. "What in-

what he was about to cay. He flung down notes to the value of several rubbes. With a greedings that could not be concealed, Hakkabat grassed them all. boward the value of his cash. He was welving some eighteen hundred per cent. interest, and accordingly

The professor pocketed his French sains with a

CHAPTER VII

QUARTER of an hour later, the visitors to A the Hessa has rea-hall of Nina's Hive. the Heren had responshed in the common "Now, wentlemen, we can proceed," said the pro-"May I request that this table may be

Box Zeef removed the various articles that were lying on the table, and the coins which had just been begrowed from the Jew were placed upon it in throu piles, according to their value

The professor commenced. "Since name of you caption to save either a meter measure or a killogram weight from the earth, and conce both these

of my own to replace them," This exordium delivered, he peased and seemed too wall acquainted with the professor's temper to

Implied reproach,

indeed, they are almost new. They have been receise length of a terrestrial meter." Ben Zoof looked on in perphoxity, regarding the

feasor's meaning. They know that French coinage

to all decired, the force being the standard of which the other come, whether gold, silver, or corner, are multiples or measures: they know too that the rigorously determined by low, and that the diametars of the allver coins representing five france, two france, and fifty captimes measure thirty-sayon. had conceived the plan of planing which a rember of

united diameters should measure exactly the thousand millimators that make up the terrestrial meter. The measurement thus obtained was made by means of a pair of companses divided accurately into ten equal portions, or decimeters, each of course S.f.G. Suchas lang. A red was then cut of this exact

who was directed to cut out of the solid rock the cable decimates resulted by the newfrance. The next business was to obtain the precise waight of a kilagram. This was by no resons a difficell reation. Not only the disperson, but also the

"Oh!" oried Ben Zoof: "to be able to do all this. I see you result be rich as wall so harred? With a good-ustured laugh at the orderly's remark, the meeting adjourned for a few hours. By

task, and with all due care had prepared a cubit decimeter of the material of the comet. "New, gentlemen," said Professor Rosette, "we

now arrive at Gallia's attraction, density, and DAME." Everyone gave him complete attention. "Before I proceed" be resemed, "I must recall

to your rejude Newton's general law, 'that the attractice of two hedies is directly proportional to the product of their masses, and inversely propertional to the square of their distances." "Yes," said Servades; "we remember that."

"Well, then," continued the professor, "keep it in mind for a few minutes now. Look here! In this har non farty frea-franc pleass-altogether they weigh exactly a kilogram; by which I mean if we were on the carth, and if I were to hang the hag on would register one kilogram. This is clear enough.

As he spoke the professor designedly here his eves dued upon Ban Zood. He was avowedly folabways in lecturing to watch the countensace of the least totalitrent of his audience, and when he felt childed that he must have agreeded with all the rest. In this case, however, it was technical ignor-

Seriefuel with his seruting of Ren Zoof's face, the prefessor west on, "And now, gentlemen, we have to see what these ocitis weigh here upon Gallia." We sumeried the money has to the book; the

the mass or weight. This was a matter of little

needle confined and stormed. There is affile by The weight registered was one breedend and "There, contierned, one hundred and thirty-

gram! You see, orresequently, that the force of gravity here on Gallia is not one-seventh of what "Interesting!" cried Servadar, "most interesting !

But let up go and compute the mass." "No. cartain, the deputy first," said Bosette. "Certainly," said the Bestemant; "for as we al-

ready know the volume, we can determine the mass e'You The professor took up the cabe of rock. know what this is," he want on to say, "You know, postloner, that this block is a cube bewn from the substance of which over-where, all throughout your

voyage of circumnavigation, you found Gallia to be composed-a substance to which your euclosical attainments did not suffer to assist a narron." "Our curiosity will be gratified," said Servedac,

"If you will entighten our pergrapes." the interruption "A aphatome it is which as doubt constitutes the

sale material of the cornet, extending from its surface to its imperment depths. The wookshilling is that ability; you have found no trace of any other subme may at the majority and ma shall have the loss salesh will unlock the problem of the whole werebi of Gallia. We have demonstrated that the force of attraction here is only one-arounth of what it is unon the earth, and shall oversemently have to

in order to ascertain its proper weight. Do you understand me, goggle-ever?" This was addressed to Ben Zoof, who was staying "I thought not; it is of no use waiting for your

purch-brains to make it out. I must talk to these The professor took the cube, and, on attaching it

weight was one kilogram and four hundred and "Here it is, gentlemen; one kilbgram, four hundred and thirty groms. Multiply that by seven; the

product is, as nearly as possible, ten kilograms. What, therefore, is our conclusion? Why, that the to a cubic decimeter. Had it not been for this have been one-differenth frateod of one-serveth of the

The professor could not refeate from arbibilities his gratification that, however inferior in volume.

Nothing further now remained than to such that

"Let we see," said the captain; "what is the force

JUSTING SOMEWHAT CLOSE

EXCEPT as to the time the comet would false to revolve round the san, it must be confessed that all the professor's calculations had com-

studies in solitude. cording to Rosatts, the 63rd of Auril. In the course

attaining at the end a distance of 197.500 010 leagues from the sun. This would have \$1,000,000 anhelice of the 15th of January, after which it

would begin ones more to approach the sun. But meanwhile, a marvelous world, never before as close within the range of human wister, was revenling Steelf. No wonder that Palmyrein Beastle

out those calm, clear Gallian naghts, when the book of the firmament lay open before him, he could ravel The electors orb that was becoming so conspicu-

ter, the largest of all the bodies existing within the influence of seler effection. During the owner months that had elapsed since its collision with the earth, the comet had been certificately ammonth. ing the planet, until the distance between them was scarcely more than 61,000,010 learner, and this would go on diminishing until the 15th of October Under these circumstances, was it perfectly cer-

toin that no danger could norme? Was not Gallia when its pethway led it into such close proximity to this enormous planet, running a risk of boune structed within its influence? Might not that in-fluence be altogether disastrons? The professor, it revolution, had represented that he had made all proper allowances for any perturbations that would

but what if there were any errors in his calculatuces? what if there should be any elements of disturbance on which he had not recknood? Speculations of this kind became more and more

frequent, and Lieutenant Procope pointed out that the danger incurred might be of a fourfuld character: first, that the comet, being irresistibly at-

tracted, might be drawn on to the very surface of the result of being brought under that attraction. it wight be transferred into a satellite, or even a sub-satellite, of that mighty world; thirdly, that it

might be diversed into a new orbit, which would never be coincident with the collette; or lastly, its course might be so retarded that it would only reach the ecliptic too late to permit any junction with the

earth. The occurrence of any one of these contincancies would be fatal to their hopes of resnice

strangely severed To Rosette, who, without family ties which he had never found leisure or inclination to contract,

pupil." The centain could not help himself; he was forced "Well then," and the professor, "I post received you. Taking the stiruction of the earth as 1, that on Mercury is 1.15, on Veryas 2 is 182, on Mars. 5.

"Therefore, if a man upon the surface of the sun

"A folly buttle-field for cowards " springed Bon

"Not so tolly, Ben Zoof, on you faxey," said his

Ben Zoof vontured the remark that, as the smallross of Gellin secured to ite ithishitants such an increase of strength and author, he was almost sarry that it was not a little smaller atill

"Through it sould not have been very much amaller anyhow." he added, looking slyly at the professor. "Life" erelained Rosetta "Year head is too

Held already; a roll of wind would blow it away." "I must take cars of my head, then, and hold it

Umble to get the last word, the professor was about to retire, when Servadac detained him. "Parmit me to sak you one more question," he said. "Can you tell me what is the nature of the

"Yes, I can answer that. And in this matter I do not think your importinent orderly will wenture a substance not unknown upon the earth," And

tains 70 per cout, of tellurium, and 30 per cont. of gmld " Servadae uttered an exclamation of surprise "And the average of the specific gravities of these two substances is 10, precisely the number that rep-

"A comet of gold?" eisculated the captain. "Yes: a realization of what the illustrious Maypartula has already deemed probable," replied the

"If Gallia, then, should ever become attached to the earth, might it not bring about an important revolution in all mornetary affairs?" insulted the

"No doubt about it!" said Rosette, with manifest entisfaction. "It would supply the world with about

"It would make gold about as thesp as dirt, I suppose," said Servadae The last observation, bowever, was entirely lost

"And what I wonder, is the use of all those big forures?" said Ben Zoof to his master, when next

"That's just the charm of them, my good fellow,"

ments, and the following mouth was a period of

On the lat of September the distance between 16th the distance was further reduced to 26,000-

and was rushing on in a straight line towards the The more they contemplated the character of this glorestic planet, the more they become impressed their own course. The diameter of Jupiter is 85 350 miles, meaning alarmy times as great as that of the earth; its volume is 1,507 times, and its mass 350 turco greater; and although the mean dentity

has been approved that the apperficien of Justice is liquid), yet its other proportions were large smouth to warrant the apprehension that immortant due-"I forget my astronomy, lieutenant," said Servaday. "Tell me all you can about this formidable

The hertenent boring refreshed his memory by reference to Flammarion's Résite de l'Indiei, of complishes its revolution round the sun in 4,385 days, 14 hours, and 2 minutes; that it travels at uring 2,676 millions of miles; and that its rotation

"His days, then, are shorter than the earth's "Considerable" suggested the lightenest, who

rapid so on the earth, causing the polar compresnearly perpendicular to the plane of its orbit caused the days and nights to be nearly of the some length, and the ecosom to be invariable; and the earth, the average distance from the ean heled

"And how about these satellites? Semetimes, I suppose. Juniter has the benefit of four moras off abining at once?" asked Servadae

that another wroms round its referen at an interval about equal to the moon's distance from ourselves; but that they all revolve in considerably loss time: the first takes only I day, 18 hours, 27 min-

utos. The most remote revolves round the planet at "They have been enhated into the service of "It recet be a wonderful pight," said the contact.

utes; the second takes 3 days, 15 hours, 14 minutes; the third. I days. S hours, 42 minutes; wholst the

"Yea," answered Procops, "I often think Jupiter In like a predictious clock with four heads."

"I only hose that we are not destined to make a Such was the style of the conversation that was

surrena. Whatever topic might be started. It "The more cornets that these planets are from the sun," said Procoso, "the more processis, and adsituated 2.746,271,000 miles from the sun, leeped

from the solar nebulosity, thousands of millions of centuries back, Uranus, revolving 1,753,851,000 an age amounting to many hundred millions of cento one and centuries old. Mars has existed for 1-The carth. 91,430,000 miles from the sun, quitted stored the are of 50,000,000 years at least; and

Servadae listoned attentivoly. He was at a loss cital of this novel theory was to the effect that, if Mercury than by Jupiter, for Mercury, being so much the yearner, would probably prove the less

It was on the 1st of September that the council had crossed the orbit of Jupoter, and on the lat of Octoher the two hodies were calculated to be at their munitum assertation. No direct shock however. could be apprehended; the demonstration was suf-Sciently correlete that the orbit of Gallia did well being inclined at any angle of 1" 19" to the orbst of

As the worth of Sentember mound towards its cices. Jupiter becau to wear an aspect that reput the most indifferent observer. Its aslient points the solar rays, reflected from its disc, glowed with a mingled softness and intensity upon Gallia, so that

Who could wonder that Rosette, enthusiast as he was, should be irremovable from his observatory? Who could expect otherwise than that, with the prospect before him of viewing the grant among placeds, ten times nearer than any mortal ove had Macowhole on Juniter over large, the sun grew

From its increased remoteness the diameter of the sun's disc was dustinished to h' 46" And what increased interest began to be associa-

Although it is asknowledged that they are yet ordinarily visible on earth without the sid of a

powers of variety, been been able to identify them distinguish them one from the other as to describe shade: the second was blest the third was white

Rosette, in his phoerbirar interest for the glowing giories of the plazet, seemed to be beguiled into comparative forestfulness of the charms of his fessor could quite allay the general apprehension that arms serious collision might be impending. Time round on There was nothing to instify an

probension. The question was continually being "Our friend the professor," said Servader, "is not likely to tell us very much; but we may feel loas in the dark, if he thought we were not guing

he could have would be to inform us that we had "I trout from my very soul," said the essent, "that "The more I see of him, and the more I listen to

him," replied Servedze, "the more I become con-

Ben Zoof here interrupted the conversation, "I have comething on my mind," he cald. "Something on your mind? Out with 21," said

"That telescope!" said the orderly; "it strikes me pointed up at yonder hig sun is bringing it down

"Laurh, captain, if you like; but I feel disposed

"Ren Zeof." said Survedte, his laughter exchanged for a look of stary displeasure, "tough that

"I am recentur burn" said Sarvador.

Ben Zoof knew what his master meant, and to The interval between the comet and Jupiter was, by the let of October, reduced to 43,000,000 miles.

ficies, between edge and edge, being interpely bright. The balts thermeless were construelly The physiology of beits and apots altho was bein an astronomical congress on the corth, he would

or no they owed their existence to the external acever rank as one of the most mornificent amount

The bolts all parallel to Jupiter's equator were very

dusting in their markings. These immediately

those foward the noise were alternately dark and

the heavenly color. As the cerest approached the reitical point of its carrier it carried by deviced that there was an unacknowledged consciousness of alarm. Mutually recaptain were secretly drawn together by the prosweet of a common damper; and as their voture to the earth appeared to them to become more and row indiction and trust to embrace the wider philosophy that arknowledges the credibility of a

But no philosophy could be proof against the their hopes, were set upon their natural home; no them to give up their fund and sanguine antisingtion that once again they were to come in contact

"Only let us compe Jupitor," said Lieutement Procope, repeatedly, "and we are free from "But would not Saturn lie about?" saked Serva-

"No!" said Procope; "the orbit of Saturn in rerecta, and does not some athwart our nath, Juniter is our sole hindrance. Of Jupiter we must say, as William Tell said. Once through the oreinous mass

and all is well." The 18th of October came, the date of the mearest approximation of the second to the planet. They wors only 31,000,000 miles spect. What would now transpire? Would Gallia be diverted from its

proper way? or would it hold the course that the astronomer had predicted ! Early next mernity the captain ventured to take The professor was in the worst of tempera

to sudjecte the course which events had taken. The comet was pursuing an unaltered way.

The externomer, overset in his propagationtions quest to have been the most proud and contented of

his comet was destined to be so translest, and that it must insvitably once again come into collision

with the earth.

CHAPTER IX charge. Mutual interest and secessity thus con-

MARKET PROCES IN GALLIA A LL right!" said Servader, convinced by the professor's ill humor that the danger was mart; "to doubt we are in for a two years"

"And we shall see Montmartre again!" excluteed

To use a professl expression, they had safely influence of Juniter's attenction, the count had been recarded for a alogic bour, in that hour the earth mould have abroady fravaled 2.500.660 miles from the must where contact would ensue, and many con-

On the lat of November Gellin and Juniter were weeks to the 15th of January, when the comet would hards to reaccurach the are. Though light and their terrestrial intensity, so that a nerretual twilight account to have cettled over Golffe, not the population felt cheared even by the little that was left, and brooms on by the home that they about to the great huminary, of which the termerature has been estimated as not less than 5,050,000

Of the avairty andered during the lost two months lease Hakkabut had known pathing. Since the day he had done his burky stroke of business he had rever left the terior and offer Ben Zoof on the following day, had returned the steelyard reinute's consurration which Ren Zoof had held with usual, said no attention to the remark, and only which Hakkahut persisted in leading. Ben Zoof

The time came, however, when various streamstences prompted him to think he must renew his intercourse with the inhabitants of the Hive. Some of his goods were beginning to epoff, and he felt the necessity of turning them into maney, if he searchy of his commodities would secure very high

It happened, just about this same time, that Ben would soon be rusning sheet, and that their stock of coffee, surar, and tobacco would want remissishing. Servadac's mind, of course, turned to the cargo on board the House, and he resolved, according to his promise, to apply to the Jew and become a purover the received of first solling a vertice of his cargo for all the paper maney thay good give ham; want these. You, they should have these, too, for got back again to the earth; bills from his Excolleger the governor would be good belle; anyhow there would be the shorter. By the God of

Although he did not know it, he was proposing to follow the prortice of the Gouls of chi, who ad-

SETT Halvalus hesitated to make the first advance, and it was accordingly with much satisfaction that he halled Cardein Servedge's ameanance "Hakinbut," said the captain, plunging without

some tobacco, and other things. I have some towick to order them, to settle the price, and to-morrow "Merciful heavens?" the Jew bean to whime but

"None of that miserable howling! Rushess! I am come to buy your goods. I shall pay for them,"
"Ah yes, your Excellency," whispered the Jew. his value trembling like a street horour. "Don't impose on ma. I am poor; I am nearly ruined al-

"Cons your west-had whiteins?" orlad Serendan "Ready money?" saled Hakkuhut. "Yea, ready money. Wast makes you ask?" said

the captain, gurious to bear what the Jew would "Well, you see-you see, your Excellency," atammered out the Jew. "to give gredit to one wealful -I meso bosorable, and his lordship the count is binorable; but maybe—maybe——"

"Weil?" said Servador, walting, but inclined to

kick the old rancel out of his sight. "I chouldn't like to give credit," he repeated, "I have not noked for credit. I have told you

"Very good, your Excellency. But how will you "Far you? Why, we shall pay you in pull and silver and corper, while our money lasts, and when

"Oh, no paper, no paper!" greated out the Jew.

"Why not? Surely you can trust the banks of England, France, and Bussis."

"Ah no! I must have cold. Nothing as safe as gold." "Well then," axid the captain, not wanting to love his temper, "you shall have it your own way; we have alsolv of gold for the present. We will leave should come again the next fay, was about to quit

"One moment, your Excellency," said Hakkabut, sidling up with a hypogritical smile; "I suppose I

"You will of owere, charge ordinary pricasproper market prices; European prices, I mean."
"Merciful heavens!" shrieled the old man, "you

rob me of my rights; you defread me of my rob me of my rights; you defraud me of my privilege. The manopoly of the market belongs to me. It is the custom; it is my right; it is my

Servedee made him understand that he had no intention of sweeving from his destaice.
"Mereiful beavens?" arain howled the Jess. "it

is shear rule. The time of menopoly is the time for profit; it is the time for speculation." "The very thone, Heldesleet, that I am appleas to seem to ferret our rights; you are forgetting that

If I piesus, I can confiscate all your earge for the common use. You cught to think rourself lucky in potting any price at all. Re contented with Rorn. pean prices; you will get no more. I am not prime All the rest of the day the Jew was mustoring

all out of them; be would make European prices True to his word, the captain next morning arrived at the tartan. He was accommunied by Bur

Zoof and two Russian suiters. "Good-recenter, ald ly business with you, you know," was Ben Zoef's "What do you want to day?" asked the Jaw.

"To-day we want coffee, and we want sugar, and we want tobacco. We must have ten kilograms of each. Take care they are all good; all first rate. I am commissariat effect, and I am responsible."

carron," said Hakkahut, "So I am, on state occasions; but to-day, I tell you. I am superintendent of the commissariet de-

Heldsabut hereupon descended into the hold of ly fastoned by strips of paper, labeled with the

"Ten kilograms of tobacco at twelve france a

Ben Zoof was on the point of laying down the "Let us just see whether the weight is correct." Hakkabut pointed out that the weight was duly registered on overy pecket, and that the packets had never been unfastened. The captain, however, had The index regretance cells 130 orange "You see. Hekkelpit I was right. I was nerfeetly furtified in having your goods put to the

"But-but your Excellence-" stemmend out the bewildered man. "You will of course, make up the defeloner," the

captain continued, not noticing the interruption.

"Come, come, old Colaphas, do you hear? You are to make up the deficiency," exclaimed Ben Zoof. "Ah, yes, yes; but----" The unfortunate Isrnollie tried hard to speak, but

his arisation provented him. He understood well spough the cause of the phonomenen, but he was "Come, I say, old Jededuch, you are a long while

As soon as he recovered his more of articulation. lease began to pour out a modley of lamentations and petitions for mercy. The cardain was insperable, "Very scery, you know, Hakksbut, It is not roy fault that the pecket is short weight; but I

"A bargain is a bargain," said Servidee. must complete your contract." And, meaning and grouning, the miserable mun

by his own scale. He had to repeat the process with the super and coffee; for every kilogram he had to weigh seven. Ben Zoof and the Russians jeered him most unmercifully. "I say, old Mordecol, wouldn't you rather gi your goods away, then sell those at this rate?

would." "I say, old Pilate, a menopoly isn't always a good thing, is it?

"I say, old Sepharvaim, what a fourishing trade you're driving ! Meanwhile neventy kilograms of each of the

articles required were weighed, and the Jew for each seventy had to take the price of tax-All along Captain Servedae had been acting only sotion with him into an occasion for a lot of fun-But the joke at an end he took care that the Jow was properly paid all his legitimate due.

CHAPTER X ESB INTO SPACE

MONTH passed away, "Gallia continued its so far removed from the ordinary influence After all, they were but making a varage-a

170 strange wit a transfert, augmented through sales volcano continued its veguiar and unthonoung discalculations were correct—and why should they be darkted 2-there little monel was destined after a On the 15th of December Gallie was 276 per 600

two years' absence, once more to return "to part." but with the good prospect before them of over agoin standing on terrestrial shares, they had nothcomfortable as they could in their prepent quarters.

contain, the count, nor the Houtemant felt under any of winter, in the cultivation or the preservation of their agreentural resources. Nevertheless than

they resuld have been driven to adopt, if they had From after the foreign-sofet in their career, then aboves of Gourbi Island, where they would have to

four rooths or theresbouts, they would had the would their havmaking and their corn barvest have anain, like a swarm of bees, to retire to their semitrooledyte existence in the cells of Nina's Hive. expedition possibly result in the discovery of a vein turned to account in warming some srection which they might home to put up? A prolonged existence

monotonous and depressing, and although it might be all very well for a man like Professor Rosette, shorted in astronomical studies, it was ill suited longer period than was absolutely indispersable One contingency there was, almost too terrible to ha taken tota account. Was it not tashe expected that the time might come when the internal free of lava would consequently cease to first! Why should Gallia be exempt from the destiny that

should it not roll onwards, like the moon, a dark cold In the event of such a concetted of the volcanie equation, whilst the cornet was still at no great a to find a substitute for what abuse bud second to render life endurable at a temperature of 69° below zero. Happily, however, there was at present no symptom of the subsidence of the lava's stream; the

some 11,000,000 or 12,000,000 longues during the much Arother world was new hemoning a canspirmous object in the heavens, and Paimyrin Ronotte, after reinicing in an approach peacer to Innites than any other mortal man had save atbe less than 415,000,000 miles; but oven this distonce, although ton great to affort the cornel's very reso more than had been duly reckmed on, was considerably shorter than what had over reparated To got any information about the planet from Re-

becomes from the wan, and, as it was approximately

by night and by day he never stersed to quit his soly from the few astronomical works that hap-Ren Zoof, when he was made aware that the earth mould be invisible to the nabul are from the surface of Satura, declared that he then, for his should werein to slobt, and it was his great con-

sette appeared quite impossible. Although squalls

verfahed from his man, At this date Sators was revolving at a distance of 420,000,000 miles from Gallia, and cornequently 874.440.000 miles from the sun, receiving only a hundredth part of the light and hest which that luminary bestown upon the earth. On consulting Satura completes its revolution round the sun in a in their underground quarters was felt to be paried of 29 years and 107 days, traveling at the rate of more than 21,600 miles an hour sleng an orbit messaring 5,690 millions of miles in length, Its elecumference is about 220,000 miles; its superficies, 144,000 millions of square miles; its valums, 143,846 millions of cable miles. Satura is

The times larger than the earth, consequently it is smaller than Jupiter; in mass it is only to times less than that of water. It revolves on its axis in 10 hours 29 minutes, and 2ts own year consists of seemed to await every other heavenly body? Why inclination of its axis to the plane of its orbot, are Although the light received from the oun is connaretively feeble, the nights upon Saturn must be

Right satalistes __ Mirras. Receipter. Tethys, Direc, Rhon, Titan, Hyperico, and Japetus -excompany the planet; Mimas, the nearest to its primary, rotating on its axis in \$2% hours, and revolving at a distance of only 120,800 miles, whilst Janetus, the most remote, occupies 79 days in its rotation and revolves at a distance of 2.314.000 Another wort important contribution to the ring with which, as a brilliant setting, the planet is ring, which has been estimated by Sir William

Hereshel as starcely 100 miles in thickness, result which the innermost, dark though transparent, fr 2.625 rolles to breadth; the intermediate one, which broad; and the outer, of a dusky hue, being 8,040

Such they rend, is the general outline of this

evolved, and that this remarkable ring-aratem is a self developed, and which from some unknown

autailites, some with bright discs at their full, by the encircling rings, the aspect of the heavens from the surface of Satura must be as impressive

The Gallians indeed, were mable to realize all the marvels of this stronge world. After all, they were practically a thousand times further off than the great astronomers were able to approach by manns of their wlant telescones. But they did not complain; their little comet, they knew, was far sufer where it was; for better out of the reach of on attraction which, by affecting their nath, might

The distances of several of the brightest of the fixed stars have been estimated. Assumed others, millions of millions; the Pole star, 282 millions of miles, a figure represented by no less than fifteen

The hard numerical statement of these encourses

"Sippose," they say, "an charryer endougd with and infinite length of vision; suppose him stationed on the surface of Carmella; looking thoses towards had happened asventy years providently; transport viewing the terrestrial sphere of 720 years back; carry him away farther still, to a star so remate that it requires accountling few than rejectors com-

tions aspecthing in this way-

ness of the birth and death of Christ, corresp bire (fer appen is infinite), and he shall be a spectator of the Creation of the spheres. History is thus

their purpose. They have made their researchs.

Who can altogether be asteriaked that Palmyria

search, should have been conscious of a longing for yet wider travel through the atderval proverce? stars, fixed and irremovable in name, are all of there in motion, and Gallia might have followed them in their untracked way. But Gallia had a narrow destiny. She was not

star clusters, some of which have been entirely, others partially resolved; nor was she to lose herhitherto the grass of the most powerful refectors. the solar system, nor to travel out of sight of the . terrestrial sphere. Her orbit was efreumscribed to little over 1.500 millions of miles; and in comparison with the infinite apace beyond, this was a mere

CHAPTER XI

A FETE DAY

THE temperature continued to decrease; the reseased thermometer, which freezes at 42" below zero, was no longer of service, and the spirit thermometer of the Deleves had been brought into use. This new registered 63" below

In the creek, where the two vestels had been the procoutionary measure of bevelling, was going on alowly but irresistibly, and the tarten was unwhile the schooner, as being lighter, bad been raised

So irrestatible was this gradual process of clevation, so utterly defying all human power to arrest,

to the safety of his yacht. With the exception of

the various and the mosts, everything had been miracle could prevent the bull from being duched to

over his all-precions cargo, though continually in-

There was, however, a stronger will then Issue Hakkalut's, Although to one of all the community cared at all for the safety of the Jaw, they cared poor much for the security of his careo, and when Beryadec found that nothing would induce the old room to abandon his present questions voluntarily. he

very seen adopted measures of coercion that were "Stop where you like, Hakkabut," and the captule to make sure that your cargo is taken care of.

the part of the Jaw, were of the alightest avail. Forthwith, on the 20th of December, the removal of

the goods commenced Both Speciards and Russians were all accepted Well muffed up as they were in furs, they were

article of metal, which, in the low state of the temperature, would inevitably have taken all the without accident of any kind; and when the stores

a great auxiety Gaptain Servadac save old Isaac full permission to take up his residence amongst the rest of the community, promised him the entire control over his own property, and altogether showed him so much

consideration that, but for his unbounded respect for his master. Ben Zoof would have liked to repri-Although Hakkahut slamored most vehomently

about his goods being carried off "against his will property transferred to a place of safety, and delighted, moreover, to know that the transport had been effected without a farthing of expense to himself. As soon, then, as he formd the tartan empty, mode him, and very soon made his way over to the questers in the callery where his recchardise had

ecology. Cornected the all intercourse between himself and the rest of the inhabitants was entirely confined to business transactions, when occasion re-

The lat of January was drawing near, the confe arance of shirty-my human beings from the society of their fellowmen. Hitherto not one of them were missing. The unvarying calmiest of the climate. notwithstanding the cold, had tended to magnifuln

them is good health, and there seemed no reason to Acute that when Gellia returned to the earth, the total of its little momalation would still be core-The 1st of January, it is true, was not properly

guitad that some purchase should be made from his gold of the colony was gradually finding its way to

"New Your's Day" in Gallia, but Captain Servades. povertheless, was very anxious to how it observed

"I do not think," he said to Goost Timasokoff and Lieutenant Process, "that we could to allow our meanly to long their interest in the world to which we are all hoping to return; and how our we cornect the hend that ought to unite us, better than he calcurating, in common with our fellow-creatures

sentiments of all? Besides," he added, amiliar, "I expect that Gallia, although invisible just of respect talencopes of our terrestrial friends, and I have no both havelenteres are full of accounts detailing the

movements of the new cornet." "True," asserted the count. "I can cults imagine that we are occasioning no small excitement in all

"Av. more than that," said the lieutenant; "our Gallia in certain to be far more than a more object of scientific interest or curiosity. Why should we doubt that the elements of a cornet which has once of the Hive, Lieutenant Procone avowed that he been securately calculated? What our friend the the earth, where, beyond a question, all magnet

> The lieutenant's conjectures were an reasonable that they commanded assent. Gallia could scarcely be otherwise than an object of terror to the inhabitants of the earth, who could be no meson be certain that a second rellision would be compara-

tively so harmies as the first. Even to the Gulffare themselves, much as they looked forward to the event, the prospect was not unmixed with alarm. vice by which it was likely the impetus of the shock

Christmas arrived, and was marked by spropriate with the exception of the Jew, who made a point

of secleding himself more obstinately than ever in To Ben Zoof the last week of the year was full

of builds. The arrangements for the New Year fitte were entrusted to him, and he was arctious, in make the program for the great day as attractive

It was a matter of debate that night whether was econolic block that he much sure to come, but, on the whole, it was felt to be advisable to ask him

distike to visitors, he altered his mind, and sent yearny Pable on to the observatory with a formal company at the New Year's fitte. Public was seen back, bringing to answer except

that the professor had told him that "to-day wee lit of July." Consequently, Servadae and the court task it for

An hour ofter sureries on New Year's Day. Frenchmen, Russians, Speciards, and little Nine, as on years before had been soon in Callie. Ben Yoof and the Russian cook had guite surpassed thereselves. The wince, part of the Debryma's stores were of excellent quality. Those of the vintages of France and Snain were drunk in togating their respective countries, and even Russia was hancred in a similar way by magne of a few bottles of knemmel. The company was more than contental_it was as fortal as Ben Zeof could desire; and the ringing

"A happy return to our Mother Barth," must fairly have startled the professor in the silence of his ob-The discover over, there still remained three hears of daybold. The um was approaching the they were very uplike what had produced the wines

starting upon an excursion that would last over sightfall, to envelop themselves in the thickest of Full of spirits, the party left the Hive, and chattering and singing as they want, made their way down to the framer sharp, where they featered on their sinter. Once upon the ice, everyone followed his own fancy, and some singly, some in groups, Servadae, the count, and the lieutenant were genyou masters of their novel exercise, wondered factly and errocfully hither and thither, occasionsaffers, following a northern custom, skated in file. possed under their right arms, and in this way they described a treelessy of singular regularity. two children, blithe as birds, flitted about, now

selves, but always fall of life and spirit. As for mearturbable good temper ensuring him a smile of whole party had soon exceeded the line that made the cliffs were no larger to be seen; and at last, the obliged to aton to recover their breath, but, fearful of frast-bite they alread insteatly recovered their exercise, and proceeded nearly as for as Gourbi Island before they thought about retracing their But night was coming on, and the ann was al-

the residents on Gallia were by this time well acwas very remarkable. There was not a cloud nor a selerand by the effect of refraction, its circumfer-

ence sharrow defraed against the sky, sauk abrustly, Refers the daylight ended, Captain Servador had captioned the party to collect themselves betimes

after. We have come out like a party of skirmish-The right would be dark; their more was in con-

and give samething of that "note radiance" which Irregulately after surged the torches were the rapid motion of their bearers, had much the

later, the volcage ameaned like a dim shadow on larid glare upon the surrounding gloom. In time the ened shadows protenguely on the surface of the

Later still, half an hour or more afterwards, the torches were all but dying out. The shore was close at hand. All at once, Ben Zeof uttered a startled ery, and pointed with bowildered excitement towards the mountain. Involuntarily, one and all, then plowed their hools into the ice and come to a halt. enery lin. The valeure was extinguished? The stream of burning lava had suddenly council to flaw! Speechless with amazement, they stood still for some moments. There was not one of them that did not realise, more or less, how critical was their needtion. The sole serves of the heat that had smalled them to brave the rigor of the cold and failed there! death, in the ermeliest of all shapes, seemed staring

them in the face-death from cold! Mearwhile, the last torch bud flickered cut. "Forward!" cried Servadae, femla

At the word of command they advenced to the shere; clambered with no little difficulty up the slippery rocks; gained the mouth of the gallery; groped their way into the courses bull

How drears! how shill it occupal! Th flary entarnet no larger spread its glowing covering over the mouth of the grotto. Ligaterant Penearo loaned through the enerture. The need hitherto kept fluid by its prectimity to the lava, was

CHAPTER XII

Wilk whole injult was spart in operationing, with planty fortherologing, upon the chauses of the high power fortherologing, upon the chauses of the future. The temperature of the hall, now one trivity exposed to the operation of the power for the control of the

enough to retreat.

Here they Funci the prefensor, who, shartled by
the solders sold, had been fain to make a precipitate
the solders sold, had been fain to make a precipitate
the operationly to decand of the enthanast whether
he would like be probug all residence indefinably
upon his little cented. It is every likely that he would
have declared hunself ready to got up with any
amount of dissonment to be alle te grantify the love

Next morning, Servoide thus addressed his propose, "My friends, except from call, we have nothing to fair. Our provisions are market-never than except from except from the remaining period of our sujeran. The except is not a super-new than the contract of the contract o

His true, quite as much as his words, restered container to meany of his people, who were already yealthing to a facility of deepaler. The count and the litrotronant forweastly, has allently, grouped his hand. "Num," said the captain, "you will not be afraid to go down to the lower deaths of the mountain.

to go down to the lower depths of the mountain, will you?"
"Not if Pablo goes," replied the child.
"Oh yes, of course, Pablo will go. You are not

"Anywhere with you, your Encoderary" was the log's prompt pays, that no time must be lest in prostrating they be haven of the volume; and not represent the property and contains of the property of the many productions of Ninco Hipper volume. The many productions of Ninco Hipper volume, and the production of Ninco Hipper volume. It was no admissible of thousand the many that was no admissible of thousand to the monthal cold, they were for two temps and of the monthal cold, they were for two temps and of the monthal cold, they were for two temps and when the production of the monthal that the property of the property to determine the property of the production of the property of sity to control from the interior. task of exploring all the galleries, and was noon able to report that has had showed one which he had overy reason to believe abouted upon the central formed. His reason for conting is this constraint was that the calento emitted by the riding supers of the helm was seried to be to cottage, as tween, out of the coloring, which had been demonstrated already to though this record for the coloring as the coloring to the coloring as the coloring to the coloring as the coloring that the coloring th

he boyed descent would be easy.
Under the fineteent's direction the Residen sulfors were immediately set to work. Their former expertence had convinced them that spacks and postance were of no avail, and their note recourse was to proceed by blasting with pus-proceder. However difficulty the operation suight be carried on, it space that the contract of the contract of the contract of the time the sufficient from cold trust he seew some re-

"It we tall in our coject, and chine get to the depths of the mountain, our little colony is shound," said Couri Transchaff, "That speech is not like yourself," asswered Servodon, onilling. "What has become of the faith

The count shock his head, as if is daspair, and said, said), "The Hant that has hithere been outstretched to help occurs now to be withinwarn." "But only to test our powers of codurance," rejoined the captin, aernestly, "Octorage, my friend, counge! Something till me that this cosmitte of the appoint of some narrial, the interned force is of

all estimet. All is not ever yet. It is no coon to give up; never despir! ** Listificant Precope guits encourage with the septial. Many counse, he know, budder the interruption of the influence of the oxygen upon the mineral substances in Gallife's interfer, might ascount for the stuppers of the knowledge in the secpticality rays, and he considered it more than probable that a fresh outst had been opened in some other part of the nurface, and that the eruptive maters.

probable that a fresh outlet had been opened in some scher part of the surface, and that the craptive matter had been diverted into the new channel. But at present his business was to presente his labors as that a retreat might be insusediately effected from their new untamble position. Restless and authority for the Restless and authority. Professor Resette, if he

Restricts and agitatical, Professor Reseate, if he took any interved in these discussives, certainly test down in the professor in the second of the discussives, and from the show-rathery into the courses half, and there are freequent intervals, by night and by day, he would exclavor to excitate his observables for the horizon and in preparable corrections. In the horizon and investments of the contract of the

than he swald begin everwhelfing everyhely alcoulan with hitter complishe, pergring out his repretability of the complisher of the repretting the complex of the complex of the linetenant could hear that frequencies and the linetenant could hear that frequencies of the blands rock, as the saliens shared then cavely with their gasdes, were reline; into the found of the entace, the could be completely assume that the could be completely have been also been also been also been also been also have been also been also been also been also been also have been also been also been also been also been also have been also been also been also been also been also been also have been also been also been also been also been also been also have been also been also been also been also been also been also have been also have been also been als had therefore reason to have that a descent would Larger and larger grew the origin; at length it

torch, mushed humself through it, followed by the Neutonant and Servadas. Proporte's contecture that the sides slanted at the angle of about four of the atmosphere of the earth, and beneath the cooling of ashes with which they were covered.

worn away by the action of the lava, and those af-"Rather a lost stair-case!" said Box Zoof, so they

In about half an hour, proceeding in a southerby could always see their extreme limits, and it was not present the same system of ramification that rendered the Hive above so commodisus a residence.

satisfied with such accommodation as they could gut, provided it was warm. Cartain Servides was oture were to a certain extent realized. The lower they went, the greater was the diminution in the colliery, that was the object of exploration, and become extinct. Although the lave, from some unplacely it existed nomewhere in an incandecemt

Lighterent Process had brought in his hand a mercurial thermometer, and Servadae carried an approid harometer, by means of which he could esti-

"Rix degrees?" said Servades; "that will not suit un. At this low temperature we could not survive the winter. We must try desper down. I only hope

of ventilation. The great current of air that rushed

The descent was continued for about another three hundred feet, which brought the explorers to quarters. Here the thermometer registered 12' C. above zero-a temperature which, if only it were permanent, was all they wanted. There was no ad-

that indicated that they were at no great distance "Quite near cough for me!" exclaimed Ben Zoof. "Those who are chilly are welcome to so as more After through stee. directions, the explerers seated theresolves on a jut-

ting well, and began to debate whether it was neveticable for the colory to reake an abode in those lower deaths of the recurtain. The reconced, it sower depend of the resolution. The prespect, it true, widened out into a cavern sufficiently large. were a few ledges in the reck that would serve as must be their distanceson, drawing-room, and dona warren, they were reduced to the existence of

males, with the difference that they could not like them, forget their troubles in a long winter's along The cayers, however, was quite canable of house stores were several burrels of oil and a considerable when required for cooking purposes. Moreover, it would be unaccessary for them to confine there. sales entirely to the machiner of their elector residence; well wranted up, there would be nothing to the Hive and to the sea-shere. A surnly of the coast, and it would be necessary to arrange that correspond in turn should perform this office on the would be no sinerere to clamber up the sides of the

rester for 900 feet, and descend the same distance with a heaty burden. But the emergency was great, and it was neverly

thousands who annually winter in Arctic regions. ments of the Hudson's Bay Company, such appartes an remarate cables or elecutor-chambers are next thought of; one large agartment, wall heated and vestilated, with as few corners as possible, is considered far more healthy; and on board chip the entire bold, and in forts a single floor, is approprinted to this nursees. The recollection of this fact served to reconcile them, in a great degree, to the

Having remounted the ascent, they made the recommunity, who received the tidings with a sense of relief, and cordially accupted the asheme of the

The first sten was to dear the carreer of tie accumulation of seles, and then the labor of removal with greater rest. The four of helpy to a cortainty frozen to death if they remained where they were, variage in proceeding any further along the lavawas a stimulus that made everyone put forth all his coursies. Reds. furniture, ecololog utenalls-first the stores of the Dobryse, then the cargo of the tartan-all were carried down with the greatest alacrity, and the diminished weight combined with the downhill route to make the labor proceed with Although Professor Brastie yielded to the pras-

ground; and as it was undersuble that it would cor-

description is mentalia. Never, in the whole unikept up an uncoding wail; but manawhile he kent considerately allowed the whole carve to be de-

Jew was permitted to keep a watch as vigitant as he By the 10th the removal was accomplished, Resand at all overta, from the expansion to a narribus temperature of 60° below zero, the community was installed in its new home. The large cave was terns, aumended at intervals along the accivity that led to their deserted quarters above, guve a maind minturescences to the some that might vis

with any of the graphic descriptions of the "Arsh-"How do you like this, Nina?" said Ben Zood

"Vo bene?" renlied the child. "We are coly living in the cellers instead of times the ground floor." "We will try and make ourselves comfortable,"

"Oh yes, we will be happy here," rejoined the child: "it is nice and warm," Although they were as especial as they could to situation without distrust. When alone, they would frequently ask each other what would become of

adding, or if some unexpected perturbation about an infedicately prolonged residence in their grim abode. It was scarcely libely that the cornet could aurair the fuel of which ere long they would be in urgant reed. Who could expect to find coal in the ancient forests minoralised by the lapse of agent Would not the lava-cipders exhamed from the ax-

"Keep up your spirits, my friends," said Serva-Let us home that as fresh difficulties arise, fresh "True," said the count; "It is an old saying that

'Necessity is the mother of invention,' Besides, I same hope. As the reason for his opinion he alleged probably of cuits recent origin, because the cometstrangement, and that organization or overer multi "Most likely you are right," realise the county

"and so far from dreading a future of the internal posed to a mare terrible columity still?

"The columity of the gruption breaking out and

"Heavens?" cried the castain, "we will not think of that," "The outbreak may hopped again," said the Bentenant, calmiy; "but it will be our fault, our lack of

onversation dropped. The 19th of January dawned; and the count was

ENCEFORTH, then, with a velocity ever in-creasing, Gallin would re-approach the sun-Except the thirteen Englishmen who had

And with those Englishmen, how had it fored? "Far better than with correlate" was the south ment that would have been universally accepted in Nirg's Him. And there was every reason to coninclude that an it was The party of Columbia these all agreed, would not. like themselves, have been their armery of heat; they, no doubt, had had abunensempte, with its substantial walls, they would find ample shelter from the rigge of the cold. The time have in contentment; and Colone) Murrhy and Major Offsbart would have had leisure more than sufficient for solving the most abstrace wroblems of the chess-board. All of them, too, would be happy in the confidence that when the time should come,

so manfully to their post. It did, indeed, more than once occur to the minds both of Servadue and Mr. friends that, if their connight, as a last reacures, betake themselves to O'lbraltar, and there seek a refure: but their ferrors reception had not been of the kindest, and they were little disposed to renew an acquaintanceable that pected to most with any inharpitable relegit. Fur whatever their faults, would be the last to abandon their fellow-greatures in the hour of distress.

urgent than it had hitherto proved, they resolved to endeaver to remain in their present quarters. Uniginal number, but to undertake so long a journey across that unabeltered expanse of ice could scarceHowever great was the desire to find a retreat for every living thing in the deep below of the craster, it was found secessary to singular almost all the domestic animals before the removal of the community from Nina's Hive. To here stabled them all in the saviers below would have been quite im-

in the cavern below would have been quite imposetible, whits to have left them in the upper gallernes would only have been to abandon them to a cruel death; and since must could be preserved for an indefinite time in the original stree-planes, new coller than ever, the expedient of killing the emimals recensed to recommed itself as countly product and

Naturally the captain and Ben Zoof were most assists that their favorite herses should be aswed, and accordingly by dint of the greatest ears, all diffigulties in the way were overcome, and Zephyr and

families in the way were overcome, and Zephyr Galette were conducted down the crater, where t were installed in a large hole and provided a forego, which was still abundant.

Birds, subsisting only on scraps thrown out to them did not couse to follow the population in its migration, and no numerous did they become that multitudes of them had repeatedly to be destroyed. The general re-arrangement of the new residence was no easy business, and occupied so much time that

monotony. These section to map over extryons is kind of meant deep rare well as physical hashinch, which Servains, the senut, and the Berthemott did Chair best not only to comfair in himselvan, but to construct in the general community. They pretend the section of the their distances in which everybody was economized to take part; they read solved, and explained extracts from the sinematry monated for clause, see from the books of adventurous treat which their library supplied; and known and September, day when they probled in the section of September, day when they

had defi ber.

Selabh and morous, Halckaber could never be indicad to be present at these social gatherings. He
was far toe much occupied in his own sprupprished center, either in couning his accounts, or in counting his moure, Atheyether, with wate had before,
he new possessed the round sum of 150,000 france,
he new possessed the round sum of 150,000 france,
he new possessed the round sum of 150,000 france,
he new possessed the round sum of 150,000 france,
he new formatter and the sum of 150,000 france,
which of which was not stelling sight but actoring could
give kim any contacted on white he knew that the
duty were possible, and that he was defield the po-

abil of which was in steeling spid; just suching coulds give him any actionfaction with the larve that the portunity of putting out his capital in advantageous housetenstee, researing a proper instruct to take Notices did Palmyrin Bostet and Islams to take Notices did Palmyrin Bostet and Islams to take Notices did Palmyrin Bostet and Islams to take was far too absorting for fain to outler it to be intherupted, and to him, living so he did perpetually in a work of the properties of the interference attacher long received figures, the value day of the properties about the portishing about this count, he was now decelling install with early all arbor to the margins of all the properties of the actuality herrina, to which he are in order to the respections Normal to which he are in order to the respections of the actual to the country of the order to the respections of the the actual to the order to the respections of the the actual to the order to the respections of the actual to the country of the control of the actual to the country of the actual to order to the respections of the actual to the country of the transpection of the country of th

at various points of the orbit; and for this purpose

where, in suite of the extreme severity of the cold, he

would persevere in the use of his telescope till he was all but pourdyand. But when he felt more these sayshing was the west of some retired sportment, where he could pursue this studies without handmaps, when he was about the budmings of Pohraury, when the professor hexagish has complaint to Couplain Servadra, and heighed him is assign him a chamber, so matter how outling in which he should be free in curry matter how outling in which he should be free in curry

processed surveyers are consistent to respect to respect to the control of the co

his mind.

It do not mean," he began timidly, "to cost the
least imputation of inaccuracy upon any of your calculations, but would you allow me, my dear profeasor, to suggest that, you should review your outmate of the duration of Gallin's period of recolution.

It is so important, you know, as all important; the

difference of one half minute, you know, would secretainly mor the expectation of reunion with the earth——" the expectation of neutron with the carth—for a food guidering on Recette's face, asfect:

"I am sure Lieutenant Procope would be only too harmy to render you any accordance in the registron."

"Sit," said the prefessor, braiding up, "I want no selectarly my calculations want no revision. I never make an error. I have made my reclaming as far as Gollin in concerned. I am now making a like collinate of the elements of Nerman.

Conscious how impellike it would be to prace this mother further, the cardial nearably remarked that

is he should have supposed that all the elements of Norian had been calreshed long since by astronomtor, or on the sorth. It was about as unfactly a speech g as he could possibly have made. The prof. See glared at him forcely.
"Autuming, sir?" he exclaimed. "Yes! Norian

was a pinet then; were the consistent. Yes! Nerma was a pinet then; were then the appertuned to inthe planet was determined; but Norina is a moon the new, And do you not think, sir, that we here a ted right to know as much about our moce as those terrentrian?—and he carded his lip as he spoke with tre, a contemptance scaphage—"know of theirs."

"I beg pardon," said the corrected captain.
"Well thus, never mind," replied the professor,
quickly appeared; "only will you have the goodness

quickly appeased; "only will you have the goodness to get me a proper place for study?" "I will, as I premised, do all I can," answered

"Wery good," said the professor. "No immediate hurry; an hour hereo will do," But in spite of this condescension on the part of the man of science, some hours had to elapse before any place of retreat could be discovered likely to sait his requirements; but at length a little nock was

his riquirements; but at length a little neck was found in the side of the covern just large cough to held an arrechair and a table, and in this the actronomer was seen enseemed to his entire astisfaction.

Burled thus, nearly 900 feet below ground, the

Callians capit to have had unbounded meetal carrier to furnish an adequate reaction to the degreeoing monetomy of their existence; but many days would often slapes without any one of them seconding to probable that no one would ever have made an of-A few excursions were made in the downward direction. The three leaders, with Ben Zoof, made to the nature of the rock-for although it might be true enough that it contained thirty per cent. of

gold, it was an valueless to them as grantte-but terranean fire still retained its activity. Satisfied upon this point, they came to the conclusion that spet had certainly broken out in another February, March, April, May, passed wearily by rest that it was little wonder that no notice was taken of the large of time. The needle seemed rather to vegetate than to live, and their want of vigor be-

carried times almost alarming. The readings around bates, sustained by few, became utterly wanting in animation. The Speniards could hardly be roused to more enduring temperament, did not give way to the and the licutement all knew well enough that it was the want of air and exercise that was the cause of emionally fell a prey to the same lessitude both of bady and mind. Loan fits of drowsiness, combined with an otter aversion to food, would come over become degenerate, and that, like tertoises, they could sleep and fast till the return of summer more bravely than any of there. Flitting about, cooxing one to out, another to drink, rousing Public as

ware of her influence, they would have missed her bright presume arrely. The months glided on; how. This partial revival was probably due to the somewhat increased influence of the sun, still far, for tenant Procope had taken careful note of Resetto's

monthly appoundements of the comet's progress, and wards the sun. He found that Gallin bad recrossed entered the sone of the telescopic planets. Gradually, but uninterruptedly, life and spirits

Zoof, in particular, roused himself with radoubled vicor, like a stant refreshed freen his siumbers. The One day an excursion was made to the above. It

was still bitterly cold, but the atmosphere had look nothing of its former stillness, and not a cloud was visible from herizon to worth. The old footraries where any change was apparent was in the little greek. Here the elevation of the ice had gone on inunlifted to a height of 150 feet, not only rendering certain destruction in the event of a thaw Isaac Hakkabut, immovable from the personal oversight of his accounty in the careers, had not no-

comparted the party, and consequently was in bliss-"A good thing the old fellow wasn't there to see," ing to himself, "to have a peacock's voice, without its Doring the wooths of July and Appast, Gallie advenced 164,000,000 leagues sloug her orbit. At night here full upon the equator, caused an appreciable difference of 20" in the temperature. Like birds, the

This spring-time, if such it may be called, had a west collywaing influence upon all. Hope and courthe sky, and every evening the earth assumed a ervater magnitude among the fixed sters. It was distant yet, but the good was cheeringly in view. "I can't believe that yonder little speek of light contains my mountain of Montmartre," said Ben Zorf, one night, after he had been gazing long and "You will, I hope, some day find out that it does." anymered his master.

"I hope so," said the orderly, without moving his eye from the distant subors. After moditating a while, he speke again. "I suppose Professor Rosette couldn't make his comet go straight back, could he?" Ben Zeef understood the correction.

"No," continued the captain; "it is not for man to

CHAPTER XIV THE PROPESSOR PERFUSCIO

NOTHER menth peoped away, and it was now September, but it was still impossible to leave September, but it was still impossible to leave the warmth of the subterranean retreat for the more siry and commodious quarters of the Hive, where "the been" would certainly have been freezn to death in their calls. It was altogether quite as much a matter of congratulation as of regret that the volcano showed no symptoms of recurring its any sudden outbreak would have been disastrous to

"A wretched time we have had for the last seven

"but what a comfort little Num has been to us all!" "Yes, indeed," reelied Servadae; "she is a sharming little creature. I hardly know how we should have got on without her."

"Wast is to become of her when we arrive back at the earth ?" "Not much fear, Ben Zoof, but that she will be

"Av. voa" assented the orderly. "You can be bor father, and I can be ber mother."

Serveded langhed, "Then you and I shall be man "We have been as good as that for a long time," observed Ben Zoof, gravely, By the beginning of October, the temperature had

intelerable. The comet's distance was scarcely three our, so that the thermometer rarely suck beyond most daily visits to the Hive, and frequently proceeded to the shore, where they resumed their sketing exercise, rejoicing in their recovered freedom

as to the results of the anticipated collision with the earth, and wondering whether may measures

could be devised for mitigating the violence of a

There was no visitor to the Hive more resular to be moved back to his former observatory, where, The result of these studies no one ventured to in-

quire; but it became generally noticed that someheard muttering in an angry tone that indicated

One day, as he was hurrying down to his study, ture, made some casual remark about things not

being mary straight. The way in which his afrance was reneived the sood orderly never divulged, but hereeferward he mountained the firm conviction that there was semething very much amiss up in the To Servedue and his friends this continual dis-

emistude and ill-humor on the next of the professor occasioned no little argiety. From what, they saked could his dispatisfaction arise? They could only

reclomings; and if this were so, might there not be reason to suprehend that their anticipations of coming into contact with the earth, at the autiled time, might all be faboried? Day followed day, and still there was no cessation miserable of mortals. If really his calculations and perpetual perturbation. But he entered into no ex-

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ing haggers and distressed, and when compelled by the freet to retire, he would make his way buck to heard giving went to his vessation. "Confound it? tion the law of universal ponsense?" And the little away at the scanty locks which he could ill afford

between the results of his computation and what he upon to say, he would have sconer insisted that there error in any of his own calculations. Assuredly, if

But this state of things was before long to come about outside the great hall of the cavors, heard the professor inside atter a loud ove. Hurrying in perfect frenzy, in which cestacy and race scamed

"What, in the name of peace, do you mean?" bawled Ben Zoof, in open-mouthed amazement. "How? What? Where?" round the bewildered

"Eureka! I say," repeated Resette; "and if you Without availing himself of this polite invitation,

rushing about like a madman, screeching and yell-"Egreka" exclaimed Servadac, "That means be has made a discovery;" and, full of anxiety, he har-

But, however creat was his desire to ascertain

yet destined to be gratified. The professor kept mrttering in incoherent phrance; "Rescall be shall pay for it yet. I will be even with him! Chest! Thrown we out!" But he did not vouchsafe any reply to From that day Rosette, for some reason at pres-

out incomprehensible, quite altered his behavior to terror. All at once he began to show a remarkable interest in the Jew and his affairs, paying several yiests to the dark little storebouse, making inquiries AMAZING STORIES

as to the state of business and expressing some oblivities show the state of the exchange. The with Jaw was taken accordant by surprise. The with Jaw was taken accordance that the professor was contemplating horrowner arms many, he was conceptually very continuous and fills replice. It was not Haldenburk habit ever to advance a long except at an extrawagant rate of Marcesi, or

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has was consequently very contents in an interpretable contents of the content

The state of the s

without which he descond it impossible to exist, he found himself in considerable perpletify.

He pendered the matter over for a long time, and ultimately permanded himself that, after al, the atoms were the common property of all, and that he had an anoth right to above as a wayne that. Accordingly, the control of the

The orderly shook his head dubleristy.

"A pound of coffee, old Nathan? I can't say."

"Why not? You have some?" said Issue.

"the yes! pheny—a hundred kiloprama."

"Then let me have one pound. I shall be grate-

ful."
"Hang your gratitude!"
"Only one pound! You would not refuse anylody

clus."
"That's just the very point, old Samuel; if you were anybody clas, I should know very well what to do. I must refer the matter to his Excellency."
"Oh, his Excellency will do me justice."

"Perhaps you will find his justice rather too much for you." And with this consoling remark, the orderly want to seek his moster. Roseths measwhile had been listening to the conversation, and secretly rejoicing that an opportunity for which he had been watching had arrived.

verentics, and secretly repoking that an opportunity for which be had been watching had arrived. "What's the matter, Master Issue? Have you partied with all your coffee?" he acked, in a sympathining voles, when Ben Zoof was gens. "Ah! you, indeed," greened Habkahut, "and now

held I cannot live without my coffee."
"Of course you cannot," agreed the professor.
"And foott you think the governor ought to let me have #12"

"No doubt."
"Oh, I must have coffee," said the Jew again.
"Certainly," the professor assented. "Coffee is

nutritions; R warms the blood. How much do yeu went?

yound. A yound will list me for a long time."

"And who will wright it for you?" adolf Rosette, exceedy able to conceed the eagerness that prompted the question.

"Why, they will weigh it with my scale, of course. There is no other balance here." And as the Jew.

apole, the profesor finated he could detert the faintest of sight.

"Good, Master lesse; all the hetter for you! You will get your seven pounds instead of one!"

will get your seven pounds instead of one?"
"Yes; well, seven, or thereabouts—thereabouts,"
etammered the Jew with considerable institution.
Rosette examed his counterance narrowly, and
was about to probe him with further questions.

when Ben Zoof returned. "And what does his Excellency say?" Inquired Hakkahut. "Why, Nebemish, he says he shan't give you any."

"Why, Nebemish, he says he shan't give you any."
"Hereiful heavens?" began the Jew.
"He says he decen't mind selling you a little."
"But, by the hely city, why does he reaks me pay for wint anylody elle could have for nothing?"

"As I teld you before, you are not anybedy aim; oo, come along. You can afford to buy what you want. We should like to eet the color of your money."
"Merciful beavens?" the old man whined once

MOVE.

"Now, none of that! Yes or no? If you are going to key, say so at once, if not, I chall shat up shop."

Hikking throw well enough that the orderly was not a mean to be trified with, and said, in a treousless wise. "Yes, I will buy."

The professor, who had been looking on with much interest, betrayed monifest symptoms of astichation.

"How much do you want? What will you charge for it?" asked Isaac mourafully, putting his hand

"Oh, we will deal cently with you. We will not make any profit. You shall have it for the same price that we paid for it. Ten france a pound, you know."
The Jew bendinted.
"Come now, what is the use of your hesitating?

"Come now, what is the use of your desirange?" Your gold will have no value when you go back to the world."

"What do you mean?" soland Hakkabut, startled.

"What do you mean?" solad Hekkebut, startled.
"You will find out some day," amwared Ben Zoof,
significantly.
Hekkebut drew out a small piece of gold from

his pooket, book it close under the lensp, rolled it own in his hard, and preased it to his lips. "Shall you weigh me the coffee with my scale?" he asked, in a quarrefug voice that confirmed the professor's suspictors.
"There is notified also to weigh it with you know

suspictors.

"There is nothing else to weigh it with, you know
that well enough, old Shachen," said Box Zoof. The
egring belones was then preduced, a tray was
penied to the book, and upon this coffee was thrown
penied to the book, and upon this coffee was thrown

"There you are! There's your collee, man!" Ben Zoof said.

"Are you sare?" inquired Haldahut, peering down close to the disl. "are you quite sore that the needle touches the point?"
"Yes; leek and see."
"Give if a little push, please."

"Why?"

"Beauss—because—"

"Well, because of what?" cried the orderly, impatiently.

"Beauss I think, perhaps—I am not quite sure—northers the scale is not quite correct."

The words were not uttered before the professor, farce as a typer, but rushed at the low, 2nd school him by the threat, and was shaking him till be wan black in the face. "Halp! bis!" coreamed Hakkabut. "I shall be

"Hispi help" soreamed Hakkabut. "I shall be strangied."
"Excell constramate riseal! thief! villain?" the nonfeaser reliarated, and continued to shake the Jew

professor reliarated, and continued to shake the Jew furiously.

Ben Zoof looked on and laughed, making no atternet in interfere; he had no symmethy with either

of the two.

The second of the scuffling, however, drew the attention of Servaine, who, followed by his compenions, hasterned to the scene. The combatants were scon puried. "What is the meaning of all

were soon parted. "What is the meaning of 40 this?" demanded the captain.

As soon as the professor bad recovered his breath, exhausted by his exertions, he said, "The old reprolate, the rascal has chested us! His scale is wrong!

Toghan Servadae looked storuly at Hakkabut.

"How in this, Hakkabut?" Is this a fact?"

"No, no-post-up, your Examiners, only—

"He is a chest, a third?" record the excited sutreourner. "His weighth decrete?"

"Step, stop!" interposed Servadac; "let us hear.
Tell ma, Harkshit...."
"The scale limit. It cheated it lies" reared the

"Tell me, Hakkabut, I say," repeated Servadae.
The Jew only kept on stammering, "Yeo—no—l

But hesdies of any interruption, the professor continued, "False weights! That confounded spring balance! It gave a fahe result! The mass war wrong! The observations contradicted the calculations; they were wrong! She was out of place! Yes,

tions; they were wrong; and was one or purce 1205, out of pince entirely."
"What!" orded Sarvada; and Procope in a breath, "ext of pince?"
"Yes, completely," said the professor.
"Gallin out of pince?" repeated Servadas, agitated

with alarm of Gallia," replied Reactic, shamping in feet mpersonally; "I said Norlea."
"On, Norlea," answered Servadac. "But what of Callia 3" to insulved a silf nervanda.

his foot impersonacy; "a said recrime." "On, Nertus," nameral Servadie, "But what of Gallia?" he inquired, sits recrossly.
"Gallia, of course, is on her way to the earth. I teld you so. But that Jew is a rascal!"

CHAPTER XV TOURNEY AND A BRAPPOINTMENT

Thus as the profusor had said. From the day that Issue Helkahlut had entered upon his mucariffe career, his dealings had all been earried on by a system of false weight. That described

chaser losses of the vendor, his spirit had ground within him at helpin catepolial to rosp the frust within him at helpin catepolial to rosp the frust of his own distonetty. No one who had stadied his character could be much surprised at the centralistic part of the stade of the stade of the stade part of the stade of the stade of the stade years (sligrams that he had ever sold the tree weight was only 1950 greams, or put for and twenty per cent. Isos than it ought to have been. The professor, however, had assertationed at that the part of the stade of the stade of the stade is the stade of the stade of the stade of the stade that the stade of the

spring balance had been the mainspring of his for-

was immediately influenced by the mass of the primary.

But, whether enjoying the satisfaction of But, persistent of the state of the recommence his calculations with reference to the elements of Negtra, upon a correct busis, a task which he devoted himself with redubbled crossys. It will be easily imagined that feath and the state Hakketut, thus cought in the own true, was jewed meet use

It will be easily imagined that Isaac Makkelut, than cought in the own true, was jureed most temeretifully by these whom he had attempted to make him dayas. Ben Ecof, in particular, was recevwarried of telling him how on the return to the weight is world be presented for maing false weights, and would actually become acquainted weights, and would actually become acquainted accurate the contraction of the contraction of the received almost more than even be in disturb, also, never varturing, except when absolutely collegel, be from the other members of the community.

fines the other members of it the community.

On the '11 to Childre' the cross or which had been expressed as a matchine, and the origin of the been expressed as a matchine, and the origin of the whole of which had not expressed as a matchine, and the origin of the whole of which is not an postable overwisely statistized, and the contract of the co

single of the six benshines in French scalery, also mixing mainlessed in their critical position.

It was about this time that the quastice began to be mosted whether it would said be right to respon to be mosted whether it would said be right to respon the property of the six of the third having been also succeedingly to cope with the rights of the winter; but Captain Servoids, in a that there is a six of the winter; but Captain Servoids, in a that there is a six of the winter.

fermer behavior, it was at least due to them that they chenkl be informed of the trae condition of things, which they and no opportunity of bearing; and, moreover, that they should be invited to cooperate with the population of Nira's Nira, in the event of any measures being suggested by which the shook of the approaching collision could be

the shoot of the approaching collision could be mitigated. The count and the lieutenant both heartily concurred in Servadar's sentiments of humanity and

prudence, and all agreed that if the intercourse were to be opened at all, no time could be so suitable as the propent, while the surface of the sea presented a smooth and solid footing. After a thus should set in, norther the yazhk nor the tartan could be redorated on for service, and it would be inexpedient to make use of the steam tarnet, for which only a few tens of coal had here reserved, just sufficient to should arise. As to the yazel, which, transformed into a sideler, and performed so zonomized a strip.

tion of coal had here reserved, just sufficient to convey them to Gentral Island when the occosion abould arise. As to the yard, which, transformed into a sledge, had performed a concomial a trip to Formachter, the absence of wind would realer that quite unavaisable. It was true that with the return of summer impressions, there would no contain to the advantage of the containing the containing the analysis of the containing the containing the was absorber too still for the yard to have any contracts of military if its way to distribute.

prospects of making its way to Giberhar.
The only specifor remaining was the possibility of going on feet. The oftenness was summer-leve about 250 miles. Captinis Bervales declared himself of going on feet. The oftenness was summer-leve about equal to the undertaking. To thatle saity or sweatly make a day weedle be notching, he suid, to a penalted skater like himself. The whale journey three and hack might be postforfest grouply of cold much and

back might be performed in eight days. Provings, with a compass, a stiff-dest supply of cold mest, and a spirst lung, by which he might bell his coffee, he was perfectly sure he should, without the less differently, accomplish an enterprise that obtained in so enactly with his adventurous spirit. Equally urgest were both the count and the lieutenant to be allowed to accompany thin; nay, they

tenist to be allowed to accompany him; may, they even offered to go initiately but Servadae, expressing himself as must grateful for their consideration, declined their effer, and severed his resolution of taking no other companion than his own orderly. Highly delighted at his master's decision, Ben Scot expressed his satisfaction at the prospect of

could indime him to paramit the captain to go about there was no delay. The departure was four the following moraling, the End of November.

Although it is not to be questioned that a qualified desire of the state of the state of the state of the desire of the state of the state of the state of the desire of the state of the state of the state of the proof whit to distribute it must be owned that another idea, confided to mobely, least of all to Goust Timenabed, had been ecceptived in the brain of the

master was "up to some other little game," when,
just before starting, he asked him privately whether
there was a French tricoler among the stores. "I hellove so," said the orderly.
"Then don't say a word to anyone, but fasten it
up tight in your knappont."

Box 2001 found the flag, and folded it up as he was directed. Before proceeding to explain this somewhat onliganatical conduct of Servodas, it is measured to the server of the certain physiological flag, concludes that immented in the frailip of human status. The meter the Gallia specialed the early that the certain of the meter than the conduction of reserve began to spring up between the captains and Gount Timescheff. Though they could not be said to be oreactions of the theory of the conduction of the first process of the conduction of the first process of the conduction of the first process of the first pro

as to what would happen if, on their roturn to earth, the handsome Madame do L --- should still be free.

From companions in peril, would they not again be

award rivin! Concall it as they would, a cooless mus understilly stelling over no intimacy which, though it could never be called affectioners, had been supported by the stellar properties of the stellar properties of the stellar properties of the count a project which, wild as it was, could accrety have failed to rider the muchamellaged. The project was the accordance of Court to the

The peoplet was the amenation of Courts to the French describion. The Englishmen, rightly counts, had continued to accupy the fragment of Gliesikars, and their time was indispation of Gliesikars, and the country was indispation of commanded the opposite side of the struct, and had been accupied by Spanizach, had sizes been inhazience, and was therefore free to the first occupant who should by a support of the country of the country of the structure of Fragment and the country of the country again of Fragmen, was now the christical which of

Serraday's beart. "Who know," be said to hisself, "whether Cruis, on its return to earth, may not eccupy a great and commenting attention? What a proud thing it would be to have occurred the possesson to France". Beat meeting, so soon as they had have been been considered to be a soon as they had have been considered to be a soon as they had have been considered to be a soon as they had have been considered to be a soon as they had have been considered to be a soon as they had had had been considered to the soon for the project with the greatest east, and expressed humouff designated, so tendy at the proposer of solding to the dominious of the deminious of the

England Both travelers were warmly clad, the orderlyinguate containing all the monestery provisions, and the containing all the monestery provisions. Contain, below were made at require footerway, for the purpose of taking food and rest. The temperature by night as well as by day was quite orderwayts, and on the fourth afternoon after starting, taken to the straight course which that compare contain the straight course which that compare contain within a few miles of Contain found the made of As seen as Ben Zoof cought sight of the rect

on the vectors herison, he was all excitonous. Just as aff he were in a registeral (eggl into autros, be a talked wildly about "columno" and "requires" and "requires" and "requires" and "requires" and the probability has demandated the constraint they can have been a compared with all peached, They were within a mile and a half of the sheer, when he may be a superior of the columns and dentity, and said that he was turn be cold to so once-thing moving or if you do not not "not derive when the probability and said that he was turn be cold to so once-thing moving or if you do not not "not discrepance. As

few manutes carried them over another mile, when Ben Zoof stopped again.
"What is it, Ben Zoof!" asked the captrin.
"It looks to me like a man on a rock, waving his

an "It looks to me like a man on a reak, waving his th, arms in the air," said the orderly. "Plague on it!" muttered Servañe; "I hope we gh are not too late." Again they went on; but soon

"It is a sensephore, siv; I see it quite distinctly," And be was not mistaken; it had been a telegraph is motion that had eneight his eye.
"Playee on it!" reposted the captain.

"Teo late, sir, do you think?" asid Ben Zoof.
"Yee, Ben Zoof; if that's a telegraph—and there is no doubt of it—samebody has been before us and

OFF ON A COMET erected it; and, moreover, if it is moving, there and Baltimore, the two callent officers made use of

a cougtoons boss.

of speaking?"

He was keenly disappointed. Looking towards visible in the extreme distance, and upon the sum-

no doubt, in response to the one here. pled it, and established their communications," said

"And what are we to do, then?" asked Ben Zonf. "We must necket our charrin, and put as good a

men to protect the place," said Ben Zouf, as if meditating an assault

"No, no, Ben Zoof," answered Servadac; "We must do nothing rash. We have had our warning, and urless our representations can induce them to vield their position, we must resign our home."

Thus discomited, they had reached the foot of the rock, when all at once, like a "Jack-in-the-box," a sentinel started up before them with the chal-

"Who goes there?" "Friends. Vive in France!" cried the captain. "Hurrah for England!" replied the soldier. By this time four other men had made their ap-

pearance from the upper part of the rock.
"What do you want?" asked one of them, whom Servadan remembered to have seen before at Gi-

"Can I speak to your commanding officer?" Ser-"Which?" said the man. "The officer in command

of Couts?" "Yes, if there is one." "I will acquaint him with your arrival," answered

In a few minutes the commanding officer, attired in full uniform, was seen descending to the shore.

Servades could no longer entertain a doubt that the Englishmen had forestalled him in the occupation of Couts. Provisions and fuel had evidently

before the sea had frozen, and a solid coscurate, bollowed in the rock, had afforded Major Oliphant of the winter. The ascending anoles that rose above the rock was sufficient evidence that good fires were well on what, no doubt, had been a generous diet.

and the major himself, although he would scarcely have been willing to allow it, was slightly atouter Being only about twelve miles distant from Gibraltar, the little garrison at Centa had felt itself hy no means isolated in its position; but by fre-

communication with their fellow-countrymen on the other island. Colonel Murphy and the major had not even been forced to forego the pleasures of the cluded; but, like the two American clubs that played their celebrated came in 1845 between Washington

To Captain Servadae, the governor general of "Indeed!" said the major, with a supercilious "Allow me to express my surprise," resumed the captain, "at socing you installed as commanding officur upon what I have always understood to be Spanish soil. May I demand your claim to your

The major stood waiting for his visitor to speak. "Major Oliphant, I believe?" said Scevedac, with

"Yes, sir. Major Olinbant, officer in command of the garrison at Coute," was the Englishmen's reply.

"And to whom," he added, "may I have the honor

"My claim is that of first occupant." "Ret do you not think that the nexts of Spaniards

now resident with me may at some future time assect a prior right to the proprietoribin?"

"But why not?" persisted the captain "Recause these very Spaniards have by formal contract, made over Ceuts, in its integrity, to the

Servator attend an exchanation of surprise. "And as the price of that important cossion

continued Major Oliphant, "they have received a fair equivalent in British gold."
"Ahl" cried Ben Zeed, "that accounts for that

fellow Negrets and his people having such a lot of money." Servadee was silent. It had become clear to his

to Centa which he had heard of an being made by the two English officers. The arguments that be all that he had now to do was carefully to arrevent

"May I he allowed to ask, Captain Servañoc, what I am indebted for the honor of this visit?" "I have come, Major Oliphant, in the hope of deing you and your compenious a service," replied

felt himself cults independent of all purvices from

"I theorht major, that it was not unlikely you the surface of a comet."

The major smiled incredulously: but Servedan nothing daunted, went on to detail the results of the collision between the comet and the earth, adding that, as there was the almost immediate prospect of another concussion, it had occurred to him that it wight he advisable for the whole porclation of Galila to unite in taking precautionary measures

"In fact, Major Oliphant," he said in conclusion, "I are here to inquire whether you and your friends would be disposed to join us in our present quar-

for the common welfare.

"I am obliged to you, Captain Servedoe," answered the major stiffly, "But we have not the

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alightest intention of abandoning our post. We have received no government orders to that effect; "But allow me to repeat," insisted Servader, "that

to come in contact with it again in shout eight "I have no doubt." the major answered, "that

England will make every effort to recise us." Servidae felt perplexed. It was quite evident that of one avilable of what he had been saying

"Then I am to understand that you are deterraltar?" asked Servadac, with one last effort at "Certainly: these two posts command the en-

trance of the Mediterranean. "But supposing there is no longer any Mediterransan?" retorted the captain, growing impatient. "Oh, England will always take care of that," was Major Oliphant's cool reply. "But excuse me," he

And without further purisy, followed by his sel-Servadae examine his mustache with minried rare

"A fine piece of huniness we have made of this!" "We will make our way back at ence," realied

"Yes, the aconer the better, with our tails between our lors," relained the order)r, who this time turned as it had set out-in Ben Zoof's knamsek. On the sighth evening after starting, the travel-

in time to witness a great commotion, Palmyrin Resetts was in a furious rage. He had perfidious satellite had totally disappeared. The

velving in its proper some of the miner planets. CHAPTER XVI

N his return Servadec communicated to the A sis recum Servane communicates to the personal project, did not emocal the fact that the Spanuards, without the smallest right, had sold

Having refused to guit their nest, the Englishmon had virtually excluded themselves from any further consideration; they had had their warning,

Although it had proved that not a single creature either at Gourbi Island, Gibraltar, Coute, Madelena,

The day following Servadac's return, he and the most advisable method of proceeding under their present prospects. Ben Zorf was, as a matter of had been saked to attend; but he declined on the ples of taking no interest in the matter. Indeed, the disappearance of his meen had utterly discen-

In the least to make it certain that a like immunity

secape was doubtless owing to some slight, though unaccountable, modulanties in the rate of motion

so fortunately, was a question that had still to be

long his cornet also, plonged hire into an excess of Although the berrier of cool reserve was secretly scrupulously concealed any outward token of their

inner feelings, and without any personal hise anplied their best energies to the discussion of the question which was of such mutual, nay, of such Servadue was the first to speak. "In fifty-one days, if Professor Rosette has made no error in his calculations, there is to be a recorrence of collision

we have now to make is whether we are prepared for the coming shock. I sak my-sif, and I sak you. whether it is in our power, by any means, to avert the evil consequences that are only too Blody to

Count Timescheff, in a voice that seemed to thriff disposal of an over-ruling Providence; human pre-cautions cannot away the Divine will." "But with the most profound reverence for the will of Providence," replied the captain, "I beg to

we can to escape the threatening mischled. Heaven "And what meens have you to surrest, may I gald?" said the count, with a faint secent of satire. Servidae was ferred to acknowledge that nothing

tangible had hytherto presented itself to his mind. "but I don't understand why such learned gentlemen as you cannot make the comet so where you "You are mistaken, Ben Zoof, about our harn-

with all his learning, has not a shadow of power to prevent the comet and the earth from knocking against each other." "Then I carnot see what is the use of all this

learning," the orderly replied. "One great use of learning," said Count Timuschaff, with a smile, "is to make us know our own

While this conversation had been going on, Lieu-

pected shock, there may be a variety of dangers. If, pentlemen, you will allow me. I will courserate them; and we shall, perhaps, by taking them seriuthe time of the first concussion, there was nothing tion, be in a better position to judge whether we can successfully grapple with them, or in any way mitistorm, should be left as it were upon the support There was a coneral attitude of attention. If was surrelining how calmly they proceeded to discuss

the circumstances that looked so threatening and "First of all," resumed the heutenant, "we will

'And the refine fact to be remembered," interposed Servadae, "is that the combined velocity of "Express speed, and no mistake!" muttered Ben

"Just so." assented Procepe, "Now, the two bodies may immunge either directly or obliquely. If the impact is sufficiently oblique, Gallie may do earth; she may, or she may not, carry off a per-

tion of the earth's atmosphere and substance, and so she may foot away again into space; but her orbit would undoubtedly be deranged, and if we

"Professor Rosette, I suppose," Ben Zoof re-"But we will leave this hypothesis," said the lieutenant; "our own experience has sufficiently shown us its advantages and its disadvantages. We will

"A great wort upon her face?" saud Ben Zoof, Isughing. The ceptain held up his figurer to his orderly. making him understand that he should held his

"It is, I presume, to be taken for granted," conearth is comparatively so large that, in the event of a direct collision, her own motion would not be

comet along with her, as part of herself," "Very little question of that, I should think," said "Well, then," the Ecuternat went on, "what part

of this cornet of ours will be the part to some buts collision with the earth? It may be the equator, where we are: it may be st the exactly engested In any case, it seems hard to foresee whence there

is to come the faintest chance of deliverance." "Is the case so desperate?" asked Servadae, "I will tell you why it seems so. If the side of the comet on which we are resident impinges on the

"Regular inforessest?" said Ben Zoof, where no admonitions could quote reduce to silence. "And it," said the licutement, after a moment's terruption-"and if the collision should occur at our antipodes, the sudden check to the velocity of

situ; and, another thing, we should ren the risk of would be assimilated with the terrestrial atmosphore, and we, supposing we were not dashed to

"But would not our chances of escene be considerably better," asked Count Timescheff, "in the of contact?" "Taking the curshined velocity into account," answered the heutemant, "I confers that I fear the

A general silence ensued, which was broken by the gencies occur in the way we have contemplated, I am driven to the ampleton that we shall be burnt

"Bornt abve!" they all exclaimed in a chorus of

If the deductions of modern science he true, the speed of the comet, when suddenly checked.

so intense that the temperature of the comet will be No one having anything definite to allege in reply to Lautenant Procope's forebodings, they all relapsed into silence, Presently Ben Zoof saked

Processe shook his head, "Even so, we should only "Thus, as I understand," said Ceptain Servadan.

reasted, or drowned. Is that your conclusion, Hen-"I ornfess I see no other alternative," answered

"But lin't there another thing to be done?" said What do you mean?" his mester asked.

"Why, to get off the count before the shock remes." "How could you set off Gallia?" "That I can't say," replied the orderly

"I am not sure that that could not be accomplished," said the ileutenant. All eyes in a moment were riveted upon him, an, with his head resting on his hands, he was manifeetly cognisting a new idea, "Yes, I think it could be accomplished," he repeated. "The propert may appear extravagant, but I do not know why it should be impossible. Ben Zoof has hit the right usli on the

bead; we must try and leave Gellia before the shock." "Leave Gallin! How!" said Count Timescheff, The Neutenant did not at once reply. He continue

distinctly, "By making a balloon!" "A ballnes!" he exclaimed, "Out of the ones-

tion! Balloons are exploded things. You hardly find them in novels. Balloon, indeed!" "Listen to me," replied Proceps. "Perhaps I can

convince way that my idea to not so chimerical as od to establish the feasibility of his plan. "If we to humor, and can succeed in loanchone correctors phere. I believe it will transpire that this atmosphere will amplements with that of the earth, and

Count Tomaschoff reflected for a minute, and

The scheme seems touble; and I shall be ready to "Only, remember," continued Procope, "there are many changes to one against our success. One in-

our halloon is burnt to ashes. Still, reluctant as I are to acknowledge it, I confess that I feel our note hope of safety rests in our getting free from this

ecens^{4,75} "If the chances were ten thousand to one against us," said Servadso, "I think the attempt ought to be "But have we hydrogen enough to indate a bal-

"Hot air will be all that we shall require," the Bestenant answered; "we are only contemplating

"Ah, a fire-balloon! A montgolfier!" eried Servadar. "But what are you going to do for a cas-"I have thought of that. We must out it out of the salls of the Debryou; they are both light and

strong," rejoined the lieutenant, Count Timescheff Truly during was the plan of which Lieutenant Process had thus become the originator; but the very existence of them all was at stake, and the

they were greeted with a welcome which no appreone of the enterprise it was absolutely necessary to know, obnest to a minute, the precise time at which the collision would occur, and Captain Secvadac undertook the task, by gentle means or by

apperintendence of the construction of the monthe large enough to carry the whole of the twentythree residents in the volcana, and, in order to provide the means of fleeting aloft ling enough to rive time for selecting a proper place for descent,

and keen up the necessary supply of heated air. The sails of the Dabryon, which had set been carefully stowed away in the Hive, were of a texture unusually close, and quite capable of being made sirtight by means of a varnish, the ingredients of which were remembed out of the promiseptraced out the pattern and cut out the strips, and oil houds were employed in seaming them together. persisted in accomplishing her own share of it. this port, and having initiated the Spaniards into professor were the only two members of the com-A month named away, but Servaine found no opportunity of getting at the information he had

riedered himself to eain. On the sole occasion when was no hurry to get hack to the earth, there need Indeed, as time passed on, the professor seemed

to become more and more inaccessible. A pleasant servatory, from which intruders were rigility shut out. But Servadae bided his time. Ha grew more out the exact moment at which the impact would sect to the too reticent astronomer. Meanwhile, the earth's disc was daily increasing

in magnitude; the comet travaled 50,000,000 learner A thaw had now fairly set in. The breaking up of the from ocean was a magnificent spectacle, and ally describe it, was heard in all its solemnity. Little streams of water heren to trickle down the deshare, only to be transformed, as the melting of the formed and carried ranking along by breezes to customed. All those were doubtless but the prelude to atmospheric disturbances of a more startling

A double disaster was the inevitable consequence of the thaw. Both the schooner and the tartan were artiraly destroyed. The hazarrent of the lex nedental on which the ships had been upheared was gradually undermined, like the icohergs of the Arctic of the 12th the huge block collapsed on essent, so that on the following morning nothing remained of the Debryse and the Hansa except the fragments

Although certainly expected, the cutsatrophs could not full to cause a same of general depression. had been broken; the ships were gone, and they had only a balloon to replace them!

To describe Isano Bakkabut's rage at the destruction of the tarian would be impossible! His oaths were simply dreadful; his improcations on the accuraed race were full of wrath. He swore that Servidae and his people were responsible for his

loss; he vowed that they should be sued and made to pay him damages; he asserted that he had been in fact, be became so intolerably abusive, that Survador threatened to put him into irons unless he conducted himself preparty; whereupon the Jew, finding that the centain was in earnest, and would not hesitate to carry the threat into effect, was fain rigging of the yacht, and the car, composed of the twenty-three passengers it was intended to

fort or convenience, as the ascent was to last for so short a time, merely long grough for making the The necessity was becoming more and more urg-

ate than ever in his resolution to keep his secret. On the 15th the cornet errored the orbit of Mars. last hour had taken them untwares. The vokano ternal disturbances, and Servadae and his com-

to some sublan disruption, rushed into the open air. The first object that caught their attention as nate professor, who was acrembling down the It was no time for condolence.

A new marvel arrested every eye, A fresh satellite, in the gloom of night, was ablaing complex-

That satellite was a part of Gallia itself! By the expansive action of the inner heat, Golffa, like Gamburt's comet, had been severed in twain; The frozment included Cepts and Gibraltar, with

THAT would be the consequences of this sudhis people hardly dared to think. The first change that came under their observation was the rapidity of the sun's appearances and disappearances, forcing them to the conviction that although the comet still rotated on its axis from

"We are coming to something?" exclaimed Servadoc. "We have got a year of something like 2.810

"I shouldn't think it would be an easy matter to Servadae laughed, and remarked that they abould

"And who told you that Gallia is not coing back withering score. It soon became evident that the detached portion

ally retresting into space. Whether it had carried sound any other condition for supporting life, and whether it was likely ever again to approach to the to determine. For themselves the all-important rephon was-what effect would the rending avsunder of the comet have upon its rate of progress? and as they were elready conscious of a further increase of muscular power, and a fresh diminution of specific gravity, Servadac and his associates could not but wonder whether the alteration in the the expected coincidence with the carth altogether. Although he profused himself incornectent to pronounce a derided ophiles, Lieutenant Procept manifestly inclined to the belief that no alteration

Rosette, up doubt, could arrower the question directly, and the time had now arrived in which he But the professor was in the worst of tempera. usually uncivil whenever any one ventured to speak tain draw the most favorable conclusions from Rosette's continued irritation. Had the comet been likely to fall in comme into contact with the earth. the professor would have been quite unable to concoal his astinfaction. But they required to know

more than the general truth, and fult that they had no time to lose in getting at the exect details.

The desired opportunity soon came. On the 18th, Rosette was overheard in furious alllittle cornet. A fine thing, he said, to split in two like a child's toy. It had cracked like a dry nut; and mightn't one as well live upon an exploding bomb? -with much more to the same effect. The new-

and the dispute was beginning to look serious when Thinking be could turn the wrangling to some good account, so as to arrive at the information he was so anxiously seeking, the captain pretended to espouse the views of his orderly; he consequently brought upon himself the full force of the profes-

Boottie's language became more and more wolvert. till Servadac, fargning to be provoked beyond endurance, cried; "You forgot, sir, that you are addressing the Governor-General of Gallin

"Governor-General! humbug!" roared Bosette. "I dany it," said Servadae, "Gallia has lost its chance of setting back to the earth. Gellin has nothing to do with you. Gallia is mine; and you must

to the earth?" asked the professor, with a look of "Why, ign't her mass diminished? Ign't she split

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in half! But her whosily all altered?" demanded the count and the heutemant, of colier and less demonstrative temperatures, alike second to realize "And pray who told you then!" again said the precisions, with a more.
"Everybody. Pourrholy known it, of counts." feathy.
"Everybody. Pourrholy known it, of counts." feathy.

"Everybody: Everybody knows it, of course," foothly,
yelled Servoids.
"Everybody is very clever. And you always were
very clever stolar too. We remember that of old,
test's we?"
in the foother were related to the store of the course of the

der't we't"

"Styl"

"You receiv mastered the first elements ordence, direkt you't you't wastered the first elements ordence, direkt you't"

"You receiv mastered the first elements or arreral of the salices. They from the gravels and the adjacent building capital nanayared by the severe-

"Sir" in yof the winter weather; numbers of little rivided intersected the pasture-land lowey plants were "Biold year torgots, sir!" believed the oaptain again, sor it his seager was uncontrollable.

som, and the lacerised follows uncontrollable as no, and the harming follows was tenanted by the

"Not I," said the professor.
"Hold your brouge?" repeated Servadae.
"Just because the mass is altered you think the abodity is altered?".
"I have been been been as in altered you think the abodity is altered?".

sholily in altered!" "Ridd you tongool" cried the outside, looker than "Ridd you tongool" cried the outside had been to consider that make to do with the critary of how may be considered by grass and straw which was accessive, many contact do you know the mean, and very completence it would have been conveyed to the

many consists do you know the man, and yet you combenson it would have been conveyed to the know their movements? Ignorance!" elevated Recettle.
"Insulance!" retorted Servalac.
"Sunshance!" retorted Servalac.
Ben Zoof, really filmking that his master was
The last of the cost having been consumed, the

argy, made a threatening movement towards the fragments of the shipwrecked vessels had to be professor.

"Touch me if you dure!" screened Boostle, draws the best of the product of the shipwrecked vessels had to be used day by day for faul. Hallabetic began modified in the himself up to the fullest beight this dimensions greate shirtly when he found that they were born-the himself up to the fullest beight this dimensions by goods of the space of the flatest himself when the found that they were born-the himself and the state of the space of the flatest himself when the flatest himself and the state of the space of the flatest himself and the state of the space of the space of the flatest had been a flatest and the state of the space of t

figure would allow. "You shall answer for your conduct before, a court of instincts" and of the expirits, the state of t

pot heavy are relectly is charged; as charged to prefer to modifies departure. The activity repeated the prefessor, with declaration of the activity repeated the prefessor, with the colonial price analysis that the asdefined and the colonial price analysis that the asmeasured to permitte New Year's Day in another face of the relection of the prefer to the precision New Year's Day in another spectra that the present the precision New Year's Day in another spectra that the precision of the pr

"Not too far off for an to come across hor ortical and a first such as the first such as the first such as the second part to we device or the meaning of the centing in the diameter." He may seen attempt, but the account the tribule meaning of the centing in the diameter, such as the manustrapproched, the loss affect developed and meaning approached, the loss affect developed and the second approached, the loss affect developed and meaning approached and

tain withires. The evidery ranks an equally police loop, and followed him nature. The prefestor, completely needlusted, was left alone. Thirteen days, aftry-two of the present—was all the facilize days, aftry-two of the present—was all the finise for preparation that now remained. Every

times but projections that now bringing. And the projection of the

surroug that the slightest clock in their procress. Results sallors' only thought was to follow that would result in informationers constitute, they all many the surrought of t

made a point of abowing aimself quite enthusiastic were only too in his anticipations, and to Ben Zoof the going up penging their in a baloon was the surrowne bright of his ambition. Som whatever,

The only resignated was Palvein Rosette, Day hardly earry ourselves; we can't have any dead weight here. Pitch it out, man, nitch it out!"

was a never-ending theme of complaint; and just abcoting-stars, and new discoveries might have

desveced to increase the intensity of his vision by in the Datoure's medicine short; with hardis fortitude he endured the tortures of the experiment, and all in vain; not a single fresh discovery rewarded his exflerings.

No one was quite exernet from the foverish excitemont which prevailed during the last days of Decomber. Lieutenant Process superintended his final to be inflated. The car was close at hand. Some inflated skins had been attached to its sides, so that descending in the sea at a short distance from the shore. If unfortunately, it should come down in mid-occar, nothing but the happy chance of some nessing vessel could save them all from the cer-

balloon, with its large living frencht, would be high that of the earth, but no difficulty in accending was

Gallia was now within \$6,000,000 miles of the sun, consequently not much more than 4,000,000 diminished at the rate of nearly 208,000 miles an hour, the speed of the earth being about 70,000 miles, that of the cornet being little less than 1884-

000 miles an bour, It was determined to make the start at two o'clock, three-quarters of an hour, or, to speak correctly 42 minutes 35.6 seconds, before the time predicted by the professor as the instant of collision. An hour previously the balloon was juriated with

perfect success, and the car was securely attached to the network. It only awaited the stowage of the Isaac Hakksbut was the first to take his place in

noticed that his waset was encompassed by an enormous girdle that bulged out to a very extraordinary extent, "What's all this, Hakkahut?" be "It's only my little bit of money, your Excellency; my modest little fortune-a mere haratelle," said

"And what may your little fortune weigh?" in-"Only about sixty-six pounds?" said Issae. "Sixty-six pounds!" cried Servadae, "We haven't

reckened for this."

"Sixty-six pounds?" repeated Servadec. "We can "Out with it, I say!" erled Servedse "What, all my money, which I have saved so long, and tooled for so hard?"

"It can't be belowd," said the captain, unmoved, "Now, old Nicodemus, listen to me," interposed

"Merciful heavens?" bersn the Jew.

above his mency; he made a ismentable outcry about it, but he unfastened his girdle at last, and

not it out of the car. Very different was the case with Palmyrin Rosette. He avowed over and over again has intention should be trust himself to a believe, that would the corner? Why should be not go once again upon His volubility was brought to a sudden check by ado, to take him in their arms and put him quietly

To the great regret of their owners, the two behind. The only greature for which there was found a place was the carrier-pigeon that had wadac thought it might probably be of service in erly, had taken their piaces, Servadae said, "Get in,

"After you, sir," said Ben Zoof, respectfully, "No, no!" insisted Servadao; "the captain must be the last to leave the ship I' over the side of the ear. Servadac followed. The cards were suf. The balloon rose with stately calma ness into the air.

WHEN the balleon had reached an elevation of about 2,500 yards, Lieutesont Proceps de-termined to resintals it at that level. A wirework stove, suspended helow the casing, and filled with lighted her, served to keep the air in the in-

Beneath their feet was extended the basin of the raltar, which might have been expected in the week, had otterly disameared. On the couth roon the volcano, the extremely of the promoutory that jutted of the sea; whilst in every direction the strange soil, with its commuters of tellurium and gold. gleamed under the sun's rays with a perpetual

Appearently rising with them in their scoret, the horizon was well-defined. The sky above them were

AMAZING STORIES

perfectly clear; but away in the northwest, in opasition to this sum, desired a new sphere, so arrand that it could not be an antereot, but like a dimension. It was the fragment that the internal convaison had read from the surface of the count, and which was now many thousands of linguing away, which was now many thousands of linguing away, justed. Durking the history of doublight, it was far from distinct, but after mightful it was far as an armount of the country of the country

definite later.

The object of the barretizal flow, which was a possible for the control of the which was applied provide down obligated broaded the said of the object of the distributed of the direct of the dire

ment, those were the vapors that pervoided the terercitial enterophere.

But a the necronate were being hurried on at a tispend of 70 miles a second, this vapors appear of the an earth apen developed Studi Into definite cultimes. We Mountain and platins were no larger confined, the idialization between sea and where were more plainly developed to introduce the large and the property of the terediffer, and introduced the large, as it were, described

securized, and instead or easy, as it ware, experient on a map, the surface of the earth appeared as though medalled in relief. Twenty-serve minutes past two, and Gallia is only 72,000 miles from the terrestrial sphere; quicker and guidest is the webotity; ten minutes later, and

they are only 36,600 miles apart!
The white configuration of the earth is clear.
"Europe! Russial Prance!" shouted Procope, the ceunt, and Servadas, almost in a breath,
And they are not mutakes. The eastern bends-

phere lies before them in the full bleas of light, and there is no possibility of arror in distinguishing centiant from continut.

The supprise only kindled their cention to yet keeper internately, and it would be hard to describe the excitement with which they grand at the panners.

Return interms, has it whose as and it be accessed to be accidentally with which the grand at the grand of the continuous with which the grand at the grand of the continuous co

has presents of the states of Europe which was centrapidus before their ope, was component for the fastatis recordinger with which Maintatistic properties of the states of the states of the telephone and the states of the states of the number flow sum stately dimer towards the said, cutter of the rithe listic; Swords and Newsy, with both brighting upon of recording, secured the states of the telephone down, from the states of the best of the telephone down, from the state of the best of the telephone down, it is also inswered Asia, in Equilipolic hear, steed with its band inswered Asia, in Carrison, Asirtic recorded a large of which we consider the state of Carrison, Asirtic recorded a large of wind or

and slopping a wanthful sleep, Spain, with Pectugal as a paramet, like an unfurther borner, fluided from the externity of the contracti; Turker, like an isotionat cook approved the line of Greece with the ether; Judy, as it were a foot and key crossed in a slight-ditting body, was jugging defity with the islared or Sochy, Marchan, and Corriers, Protest, a many, its edge just gream pth efrostlers of Prance;

whilst France Itself suggrated a vigorous torse with Parts at the heast. All at once Ben Zoof broke the dilence: "Mortmartre! I see Mortmarter" And, arolle at the absurdity as others might, soliding could induce the worthy orderly to surrender his belief that be outdo actually mals out the features of his helved home.

rardity as others might, nothing could inition the worthy orderly to surreader in both that he sould actually make out the features of his beloved been. The only individual wides sould assential surreadby the approximity sorth was Palmyrin Soutte. Leading over the sound of the ret, we feating solve the sound that the sound that the sound that the amb and a held tubow him, bright in the peared mile and a held tubow him, bright in the peared present the sound that the sound that the surreading space.

Cliptomorphy in hard, Lioutenant Process atoms

all was only broken by the order to explaint, the strone, that the abilities might retain its necessary, level, Berwahe and the count continued to goes upone the seath with an expenses that almost amounted to raw. The balloon was slightly in the rear of Collin, a drawmarizes that augment storaged afforerably, because it might be presented that if the center, proceeding the ability in the sufficience of transfer from one situation to the other case of transfer from one situation to the other, and The next question of amotive yaw, where would

the belicon alight! If upon term from, would it be in a place where adequate resources for safety would be at hand! If upon the cowar, would any passing vessel be within hall to recons them from it their critical position? Truly, as the count observed to his comercia, none to it a Divine Platconfid steer them now. "Percytory minutes past!" said the Bestenant,

and his voice seemed to the'll through the silence of expectation.

There was not 20,000 miles between the commit and the certh!

The calculated time of impact was 2 hours, 47 minutes, 35.6 records. Five minutes more and collision must cause! But was it so? Just at this moment, Lieuteman

is an oblique course. Was it possible that after all collision would not occur?

The deviation, however, was not great; it did not justify any articipation that Gailla would marray that the course of the course o

justify any anticipation that Gailla would merely gross the sorth, as it had done before; it left we certain that the two hodies would inevitably implage.

pinge.
"No death," said Ben Zoof, "this time we shall stick together."

Another thought occurred. Was it not only tee likely that, in the fusion of the two atmospheres, the balleon itself, in which they were being colOFF ON A COMET 191
Gallian should survive to tell the tale of their . In fact, they were sometimes there a rolls from

Moments were precesses; but Hother Servadae resolved that he would adopt a device to secure that at least sense record of their exemetion in selar distances should survive themselves. Tearing a leaf from his noto-beek, he wrote down the same of the comet, the list of the fragments of

the same of the count, the list of the fragments of the earth it had carried off, the reams of his companiers, and the date of the cetted's sphelion; and having subscribed it with his signature, tursed to Nins and told her he most have the earth-repigeou which was mostling in her beson. The child's own filled with tears i had a did not

The child's coss filled with issues; but she did not say a word, and imprinting a kiss upon its not plumage, she surrendered it at cose, and the merage was hurrisely fastened to its nock. The kird wheeled round and round in a few circles that wishened is their diamoter, and guidely suck to an al-

wheeled round and regard in a few circles that wheeled it their diamoter, and guidely sunk to an altitude in the comet's atmosphere much inferior to the believe.

Some minutes more were thus consumed and the

internal of distance was reduced to less than \$,000 miles.

The velocity becama incomerivably great, but the

there was nothing to disturb the equilibrium of the car in which they were making their serial adventure.

"Forty-six minutes!" announced the Heutenani.

The glowing expanse of the earth's disc seemed like a vast furnel, yawning to receive the cenet and its atmosphere, believe and all, into its open mouth. "Forty-seven!" gried Procepe. There was half a minute yet. A thrill yau through

every vein. A vibration quivered through the aimasphere. The halleen elongated to its utmost stretch, was manifeasily being sucked into a vortex. Every peasenger in the quivering our involuntarily clumg spannodically to its oldes, and not two sineepheres amalgemented, decide assumulated in heavy masses, involving all around in denne obstur-

ity, while finals of larid fitnes three a weirr gimmer on the scene. In a mystery every one found himself upon the earth again. They seed not explain it, but here they were once more upon terestrial soil; in a amount they had left the earth, and in a similar

swoon they had come back!

Of the halloon not a vestige remained, and contany to previous computation, the comet had marely grazed the earth, and was traversing the regions of succe, again far away!

CHAPTER XIX

N Algoria, captain?"
"Yee, Res. Zoof, is: Algoria; and not far from
Modaganam." Such were the first words which
after thirr return to consciences, ware suchamped
between Servadae and his orderly.
They had recibed so long in the province that
they could not for a memori be ministen us to their
which they could not for a memori be ministen as to their
which they are also also also also the country of the country
when the predicted the through the ministen
yet they were convinced at the first planes that they
had been returned to the such at the way ideals.

cal agot where they had suitted it.

made their way be the town. If was a matter of sections are the find no supposed on the least actilizated any others as they went along. The popuhan editors are considered to the control of the substitute of the control of the control of the quistly upon the postures that were most with the quistly upon the postures that were most with the control of the ing-control of the control of the three was not the fainteet three of any such phracmence creating materials.

Mostaganem, and in the course of an hour, when

thay had all recovered from the bewildermost occa-

surely would, a panie little short of the certified approach of the milleanium. "Nobody appeds us," said Servadae; "that is very certain." "No, infeed," answered Ben Zoof, with a sinh; he

was manifestly disappointed that his return to Mostagaman was not welcomed with a triamphal reoption.

They reached the Mascara gate. The first persens that Servadae recognized were the two friends that he had lavided to be his second in the dual two

again of the 8th Artillery. In return to his somewhat heditating salutation, the colonel greeted him beauting. "All Serwake, eld fellow! is it you?"
"In myself," cald the captain.
"Where on earth here you been doing with In the name of peace, what here you been doing with

yourself?"

Te would never helieve nee, colonel," answered
Serouties, "If I were to fell you; so on that point is
had better held my tongue."
"Hinge your mysteries!" said the colonel; "tell
ma, where have you been?"
"No, my friend, excesse me," replied Servalae;

"Not shake hinds with me in correct, that I may be are I am not dreaming." Hooter Servadas had made up his mind, and no amount of permandacould induce him to divinge his incredible experience. Armicos to turn the subject, Servadae took the carried opportunity of saking. "And what about "Madarma for I—" we calculated the charged tale."

"Madame de L.—" exclained the colonel taleing the words out of his mouth; "the lady is murried long ago; you did not suppose that she was going to wait for you. "Out of sight, out of mind," you know."
"Trae," replied Servedoe; and turning to the

count he said, "Do you hear that? We shall not have to fight our duel after all."
"Most happy to be excused," rejoined the count. The yirals took each other by the hand, and were united beneaforth in the bonds of a shoure and con-

fiding friendship.

"An immense relief," said Servadac to himself,
"that I have no occasion to finish that confounded
world."

"that I have no occasion to finish that confounded rands!"
It was agreed between the captain and the count that it would be desirable in every way to maintain the most rigid allenge upon the subject of the inexplicate phenomena which had come within their



HOW THIS MAN WON SUCCESS

As an Electrical Expert

THIS BIG-PAY FIELO?

PTE - Mail the step in the first of a state of the state CCHOOL OF ENGINEERING Sur Alot, of Nickel State Minester, Wil

and the widows may been to believe the property of the destroyed strains I have destroyed and proof of the strains and have it will be to a single property to the enterties field. Also see as it provides the character of the single property of the contract of the single property of the contract of the single property of -Bidgel of Proceeding to the process of the process

papping the tile of a second paper of the seco of Administra Endough - I as I make Course to sure of surebox Spirite (pentite, and games for administration trades at ont, on Discrete Salls Seles & Senton-) north

derrone no change, but they was prudent to keep their bewilderment entirely to themcelves. Nothing induced them

The very next day the small community was broken un. count and the lieutenant, started for Russia, and the Spenfards, provided, by the count's liberallty, with a competence

shores. The leave taking was accomplished by genuine tokens of regard and goodwill For Irace Haldrabut alone there was no feeling of regret. Double ruised by the loss of his tarten, and by the abandon-

Zoof sententiously remarked. "Perhaps old Jehoram is male ing money in America by exhibiting himself as the latest errival from a cornet!"

But however great was the dan might make on his part nothing could induce Profession Results to conceal his experieaces. In spite of the dontal such a cornet as Guilla at all

not only detailing his own advantures, but setting forth. with the most elaborate precision, all the elements which

an uniremertant refuselty dewhole dehete under the title of

sis." In reply to this impertinent oriticism of his labors, tion that a fragment of Gitualtar was still traversing the that it was the great disappointment of his his that he

Public and Tittle Nine were adopted, the one by Serveder for the supervision of their guardians, were well educated and cared for. Some years later. Colonel (no longer Captain) Servades, his heir slightby streeked with evey, had the pleasure of sceing the handnome voune Spaniard melted in grown into a sharming sid ppen whom the count heatened seemed Hosly, to be the Adam

and Eye of a new weeld. The career of the comet was Servadae nor his orderly could doubt. Anybow, they were firmer and more confiding friends than ever.

One day, in the covirous of Montgartre, where they were to the experiences in the denths of Nina's Hive; but stormed short and sold "Hore-His master could only renly,

is a man to believe?" THE END



METTO'S INISH MOSS. E OAKS &

IT'S MAGNOLIA TIME AT VILLA TASSO

If you have never been to Northwest Florida in springtime, you will not know what that means. Lovely, languorous days; sleep inducing nights; wonderful bathing; successful fishing; boating, riding, tramping,—enjoying life to the full. The air is laden with delicate odors of dogwood, yellow jasmine, giant blueberry, magnolia and a dozen other blossoms. Spring has been with us nearly two months now, and Nature is at its best.

Then there's the summer to look forward to-delightfully warm, yet not hot or sultry; blankets every night; rarely a troublesome insect; real summer! Thousands come to this

coast every year for their summer vacations.

ILLA TASSO FLORIDA

Villa Tasso is in the Florida National Forest on the bluffs of beautiful Chocta-whatchee Bay, 50 miles east of Pensacola. It is easily reached either by steamer or by motor, being adjacent to the Appalachian Scenic Highway, Old Spanish Trail and the Gulf Resorts Loop. It is high, dry and healthful. The water is sweet, pure and soft. Only 31/2 miles from the Gulf of Mexico, it is still

well sheltered from any possible storms. Delightful bathing

beach. Game abounds in the Forest.

Because it is only slightly developed as yet, you can still buy in this lovely spot a wonderful homesite for from \$300 to \$2000 one-tenth of what less desirable lots would cost you elsewhere. The lots are large (standard size 50 x 150 feet), title guaranteed perfect, the location ideal. Plenty of shade from pine, oak, magnolia, holly, sweet gum, bay, and other attractive trees; camphor and palms grow well, when planted. As a home or an investment you will find this hard to duplicate. Write for illustrated booklet and prices.

SPECIAL OFFER: To secure as much development as possible this spring, a special rebate of 20% is offered to every purchaser who begins his home before June 1st, 1926. Details on request.

T. V. ORR VILLA TASSO (Temporary P. U. Bolton) **FLORIDA**

Scene on the bluffs at Villa Tasso. Note the man below for height



Where Do New York's "Missing Women" Go?

"Alice, please come home. Mother heartbroken. All is forgiven." Another innocent girl "missing!" Another heart torn by anguish! Another mystery unsolved! 1.911 MISSING GIRLS Were Reported WHERE DID THEY GO? WHAT HORRIBLE SECRETS LAY AT THE ROOT OF THEIR DISAPPEARANCES?

The river . . . the marshes . . . and often a God-forsaken rooming house gives up the dead body of one of these unfortunate girls. But what of those who continue to live in shame-humiliation-and black despair?

To rescue them from a living death-to check this greatest of social evils-to break up the systematic debauchery of women by daring publicity-that is what Ex-Commissioner Richard E. En- Former Police Commissioner Enright. right has set out to do.



ENRIGHT Discloses Horrors of "White Slave" Traffic

It is estimated that more than 700 young girls have been engulfed in the gigantic "white slave" ring operating in northern New Jersey and New York during the last year. These girls, it is claimed, were actually sold to 200 "road houses" that were operated as efficiently as a chain of grocery stores. The girls were shifted from one dive to another on alternate weeks.

When new girls were wanted, the "White Slave" Ring would advertise for girls to fill various domestic positions at attractive salaries: Those whose beauty of face and figure marked them for their doom were snared and shown the

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Such are some of the horrifying questions with which Richard E. Enright deals in his sensational series of articles on the "White Slave" Traffic. Commencing in the April issue of Police Stories, Enright takes up every phase of this infamous commerce in hapless human beings. He traces the "traffic in souls" in New York from 1900 to the present day and gives the public the full facts.

No mother or father who has a daughter, nor anyone who has a heartfelt interest in the welfare

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What strange facts are connected with the gruesome murder of Joseph Elwell?

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